

TEST REPORT



Report No.: TW2412173-01E
Applicant: American Technology Network Corp
Product: ATN X-Sight 5
Model No.: X-Sight 3-15x LRF, 5-25x LRF, 3-15x, 5-25x
Trademark: N/A
Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang

Manager

Dated: January 09, 2025

**Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

SHENZHEN TIMEWAY TESTING LABORATORIES

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Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site Listed with Federal Communications commission (FCC)
Registration Number:744189
For 3m Anechoic Chamber
Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC: 5205A
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: American Technology Network Corp
Address: 2400 NW 95th Avenue, Doral, FL 33172 United States

1.3 Description of EUT

Product: ATN X-Sight 5
Manufacturer: WUHAN CHANGJIANG OPTICS ELECTRON CO., LTD.
Address: PANLONG CHENG ECONOMIC DEVELOPMENT DISTRICT WUHAN CITY, HUBEI PROVINCE, CHINA
Trademark: N/A
Model Number: X-Sight 3-15x LRF
Additional Model Number: 5-25x LRF, 3-15x, 5-25x
Rating: DC5V, 1A
Battery: DC3.7V, 1050mAh Li-ion battery
Type of Modulation IEEE 802.11b: DSSS (CCK, QPSK, DBPSK)
IEEE 802.11g/n (HT20, HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)
Frequency range IEEE 802.11b/g/n (HT20): 2412-2462MHz;
IEEE 802.11n HT40: 2422-2452MHz
Channel Spacing 5MHz for IEEE 802.11b/g/n (HT20, HT40)
Air Data Rate IEEE 802.11b: 11, 5.5, 2, 1 Mbps
IEEE 802.11g: 54, 48,36, 24, 18, 12, 9, 6 Mbps
IEEE 802.11n HT20/HT40: mcs0-mcs7
Frequency Selection By software
Channel Number IEEE 802.11b/g/n (HT20): 11 Channels;
IEEE 802.11n (HT40): 7 Channels;

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| 2.0 Test Equipment | | | | | |
|---------------------------|--------------|------------------|--------------|--------------|------------|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2024-07-12 | 2025-07-11 |
| LISN | R&S | EZH3-Z5 | 100294 | 2024-07-12 | 2025-07-11 |
| LISN | R&S | EZH3-Z5 | 100253 | 2024-07-12 | 2025-07-11 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2024-07-12 | 2025-07-11 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2022-07-18 | 2025-07-17 |
| Spectrum | R&S | FSIQ26 | 100292 | 2024-07-12 | 2025-07-11 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2022-07-18 | 2025-07-17 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2022-07-18 | 2025-07-17 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2024-07-12 | 2025-07-11 |
| Power sensor | Anritsu | MA2491A | 32263 | 2024-07-12 | 2025-07-11 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2022-07-18 | 2025-07-17 |
| 9*6*6 Anechoic | -- | -- | N/A | 2022-07-26 | 2025-07-25 |
| EMI Test Receiver | RS | ESVB | 826156/011 | 2024-07-12 | 2025-07-11 |
| EMI Test Receiver | RS | ESCS 30 | 834115/006 | 2024-07-12 | 2025-07-11 |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2024-07-12 | 2025-07-11 |
| Spectrum | RS | FSP | 1164.4391.38 | 2024-07-12 | 2025-07-11 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8M/FA | -- | 2024-07-12 | 2025-07-11 |
| RF Cable | Zhengdi | 7m | -- | 2024-07-12 | 2025-07-11 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2024-07-12 | 2025-07-11 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2024-07-12 | 2025-07-11 |
| LISN | SCHAFFNER | NNB42 | 00012 | 2024-07-12 | 2025-07-11 |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2024-07-12 | 2025-07-11 |
| LISN | R&S | EZH3-Z5 | 100294 | 2024-07-12 | 2025-07-11 |

2.2 Automation Test Software

For Conducted Emission Test

| Name | Version |
|--------|-------------------|
| EZ-EMC | Ver.EMC-CON 3A1.1 |

For Radiated Emissions

| Name | Version |
|---|---------|
| EMI Test Software BL410-EV18.91 | V18.905 |
| EMI Test Software BL410-EV18.806 High Frequency | V18.06 |

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3. DESCRIPTION OF TEST MODES

IEEE 802.11b, 802.11g, 802.11n (HT20) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low | 2412 |
| Middle | 2437 |
| High | 2462 |

IEEE 802.11b mode: 1Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: 6.5Mbps (worst case) were chosen for full testing;

IEEE 802.11n (HT40) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low | 2422 |
| Middle | 2437 |
| High | 2452 |

IEEE 802.11n (HT40) mode: mcs0 data rate (worst case) were chosen for full testing

Note: During the test, the duty cycle was set up to >98%

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3.0 Technical Details

3.1 Summary of test results

| The EUT has been tested according to the following specifications: | | | |
|---|---|---------------|-----------------|
| Standard | Test Type | Result | Notes |
| FCC Part 15, Paragraph 15.203 | Antenna Requirement | Pass | Complies |
| FCC Part 15, Paragraph 15.207 | Conducted Emission Test | Pass | Complies |
| FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit | Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth > 500kHz | Pass | Complies |
| FCC Part 15, Paragraph 15.247(b) | Maximum peak output power Limit: max. 30dBm | Pass | Complies |
| FCC Part 15, Paragraph 15.109, 15.205 & 15.209 | Transmitter Radiated Emission Limit: Table 15.209 | Pass | Complies |
| FCC Part 15, Paragraph 15.247(e) | Power Spectral Density Limit: max. 8dBm/3kHz | Pass | Complies |
| FCC Part 15, Paragraph 15.247(d) | Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209 | Pass | Complies |

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

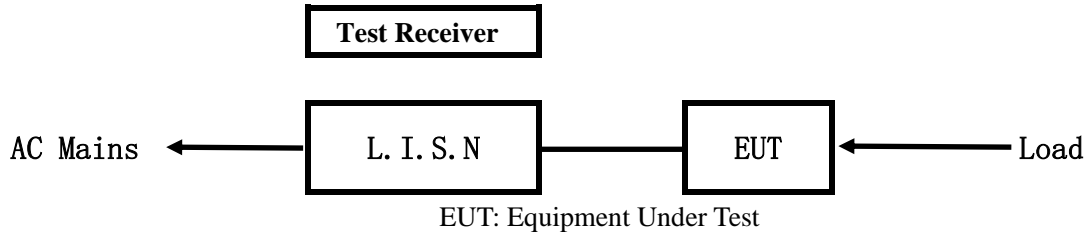
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

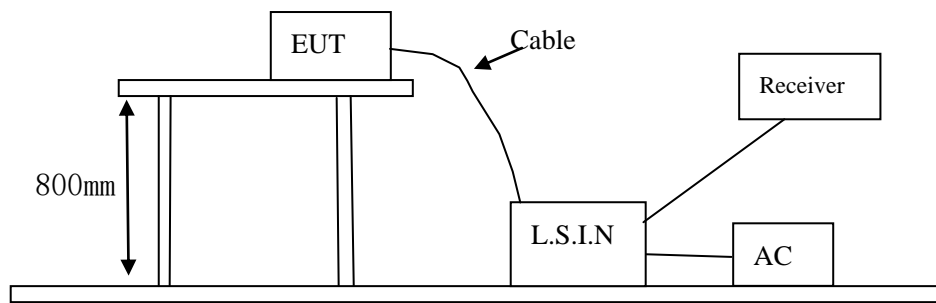


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

| Device | Manufacturer | Model | FCC ID |
|---------------|---|---|-----------|
| ATN X-Sight 5 | WUHAN CHANGJIANG OPTICS ELECTRON CO., LTD. | X-Sight 3-15x LRF, 5-25x LRF, 3-15x, 5-25x | 2BKIH-XS5 |

B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A | | | |

C. Peripherals

| Device | Manufacturer | Model | Rating |
|--------|--------------|-------|--------|
| | | | |

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| | | | |
|--------------|--------|-----------|--|
| Power Supply | Xiaomi | MDY-12-EF | Input: 100-240V~, 1.7A, 50/60Hz; Output: DC5-20V, 6.2-3.25A (67W Maximum) |
|--------------|--------|-----------|--|

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency (MHz) | Limits (dB μ V) | |
|-----------------|---------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66.0~56.0* | 56.0~46.0* |
| 0.50 ~ 5.00 | 56.0 | 46.0 |
| 5.00 ~ 30.00 | 60.0 | 50.0 |

- Notes:
1. *Decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

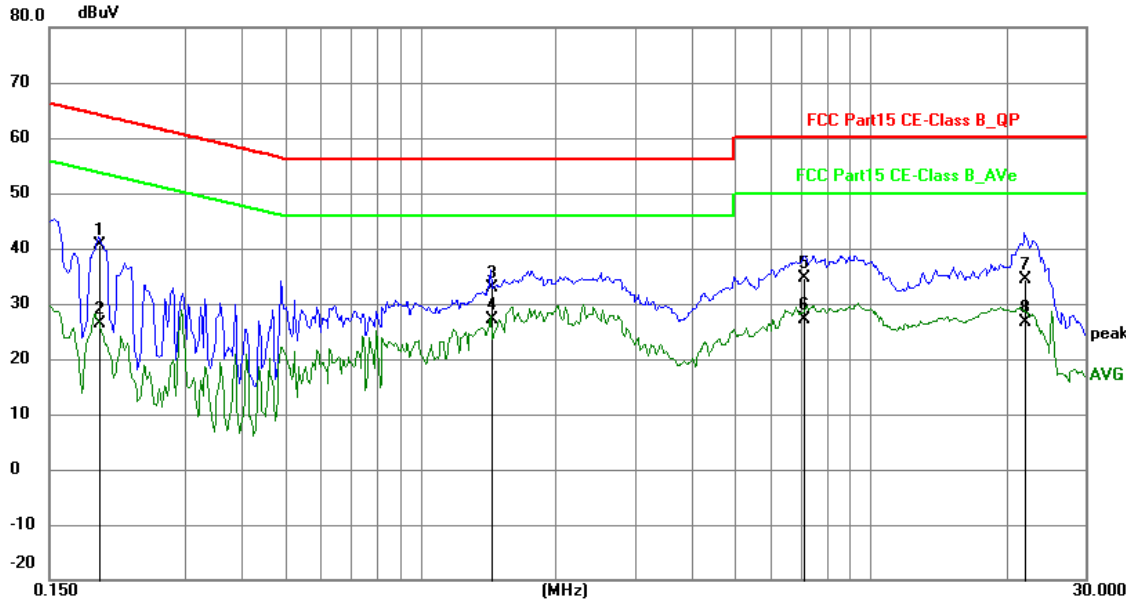
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep WIFI Transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.1929 | 30.30 | 10.32 | 40.62 | 63.91 | -23.29 | QP | P |
| 2 | 0.1929 | 16.02 | 10.32 | 26.34 | 53.91 | -27.57 | AVG | P |
| 3 | 1.4370 | 22.02 | 10.86 | 32.88 | 56.00 | -23.12 | QP | P |
| 4 | 1.4370 | 16.28 | 10.86 | 27.14 | 46.00 | -18.86 | AVG | P |
| 5 | 7.1067 | 21.70 | 12.87 | 34.57 | 60.00 | -25.43 | QP | P |
| 6 | 7.1067 | 14.19 | 12.87 | 27.06 | 50.00 | -22.94 | AVG | P |
| 7 | 21.9969 | 18.39 | 16.00 | 34.39 | 60.00 | -25.61 | QP | P |
| 8 | 21.9969 | 10.51 | 16.00 | 26.51 | 50.00 | -23.49 | AVG | P |

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

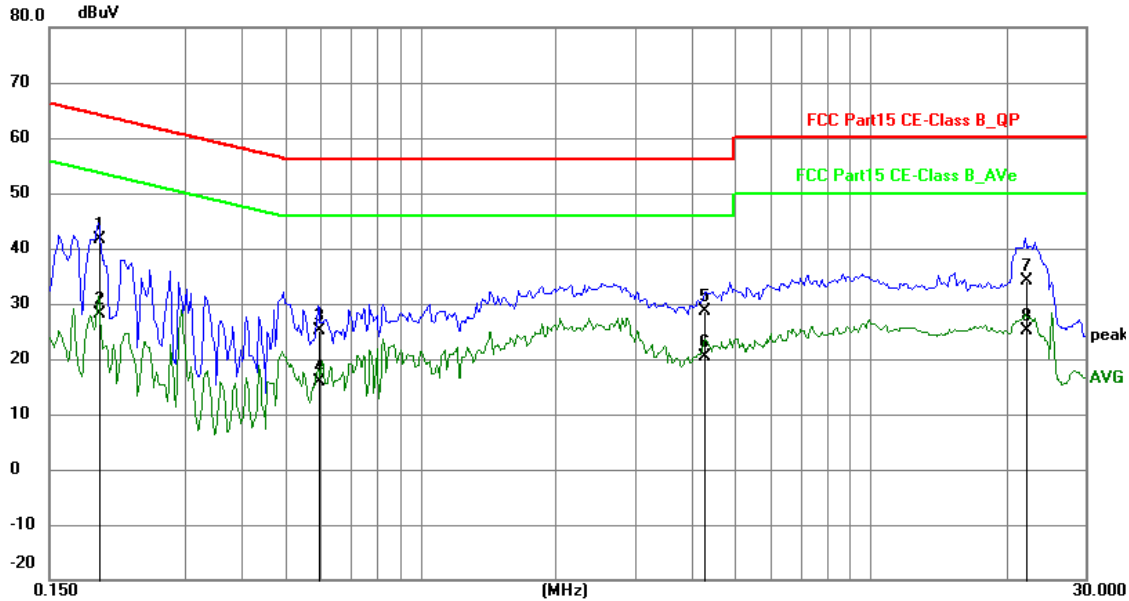
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep WIFI Transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.1929 | 31.19 | 10.32 | 41.51 | 63.91 | -22.40 | QP | P |
| 2 | 0.1929 | 17.75 | 10.32 | 28.07 | 53.91 | -25.84 | AVG | P |
| 3 | 0.5946 | 14.81 | 10.43 | 25.24 | 56.00 | -30.76 | QP | P |
| 4 | 0.5946 | 5.48 | 10.43 | 15.91 | 46.00 | -30.09 | AVG | P |
| 5 | 4.2870 | 16.61 | 12.11 | 28.72 | 56.00 | -27.28 | QP | P |
| 6 | 4.2870 | 8.28 | 12.11 | 20.39 | 46.00 | -25.61 | AVG | P |
| 7 | 22.0944 | 18.19 | 15.98 | 34.17 | 60.00 | -25.83 | QP | P |
| 8 | 22.0944 | 9.24 | 15.98 | 25.22 | 50.00 | -24.78 | AVG | P |

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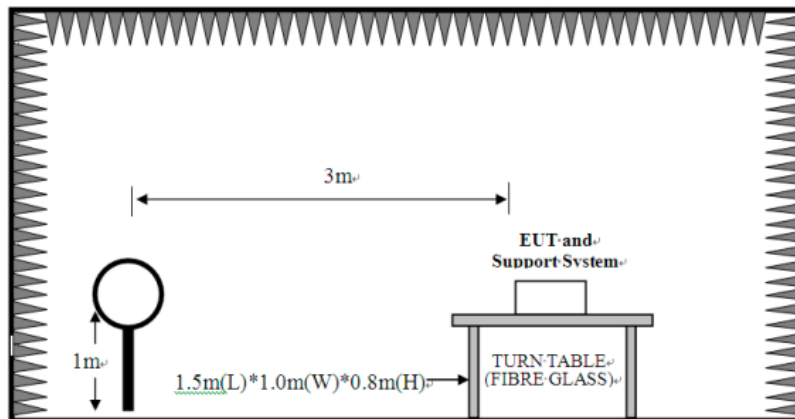
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



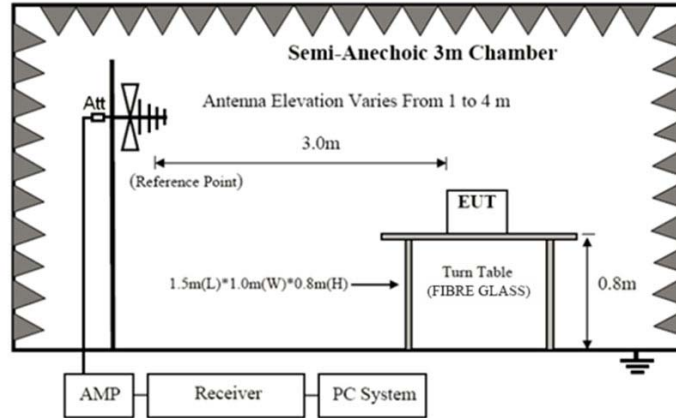
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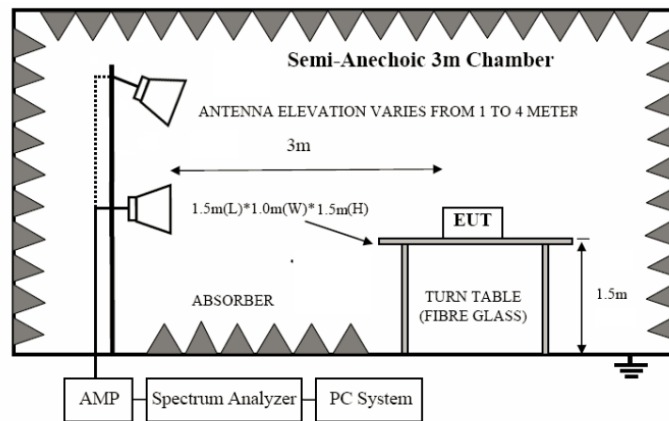
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

| Frequency Range (MHz) | Distance (m) | Field strength (dB μ V/m) |
|-----------------------|--------------|--|
| 0.009-0.049 | 3 | $20\log(2400/F(\text{kHz})) + 40\log(300/3)$ |
| 0.490-1.705 | 3 | $20\log(24000/F(\text{kHz})) + 40\log(30/3)$ |
| 1.705-30 | 3 | 69.5 |
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
 5. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
 6. Worse case were recorded in the test report. 802.11g was the worst case.
 7. Battery fully charged was used during the test
 8. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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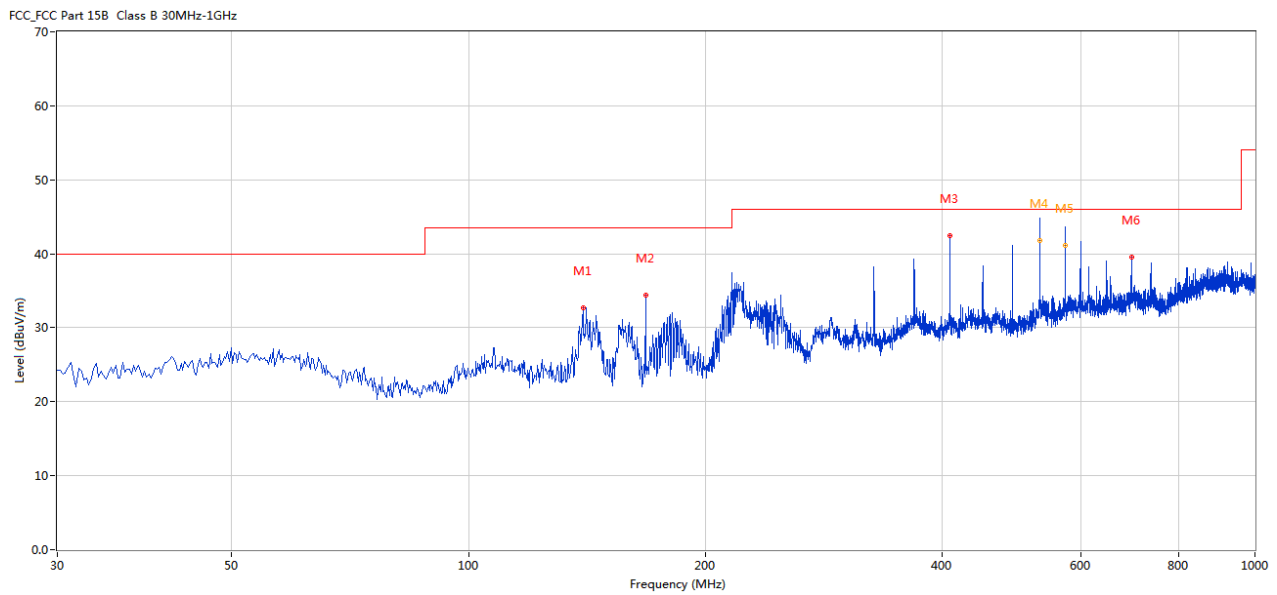
Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: Pass



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1 | 139.825 | 32.75 | -9.88 | 43.5 | 10.75 | Peak | 115.00 | 100 | Horizontal | Pass |
| 2 | 167.948 | 34.39 | -9.30 | 43.5 | 9.11 | Peak | 115.00 | 100 | Horizontal | Pass |
| 3 | 409.660 | 42.46 | -1.06 | 46.0 | 3.54 | Peak | 12.00 | 100 | Horizontal | Pass |
| 4* | 532.577 | 41.75 | -0.45 | 46.0 | 4.25 | QP | 15.00 | 100 | Horizontal | Pass |
| 5* | 573.549 | 41.19 | 1.08 | 46.0 | 4.81 | QP | 311.00 | 100 | Horizontal | Pass |
| 6 | 696.466 | 39.58 | 2.40 | 46.0 | 6.42 | Peak | 15.00 | 100 | Horizontal | Pass |

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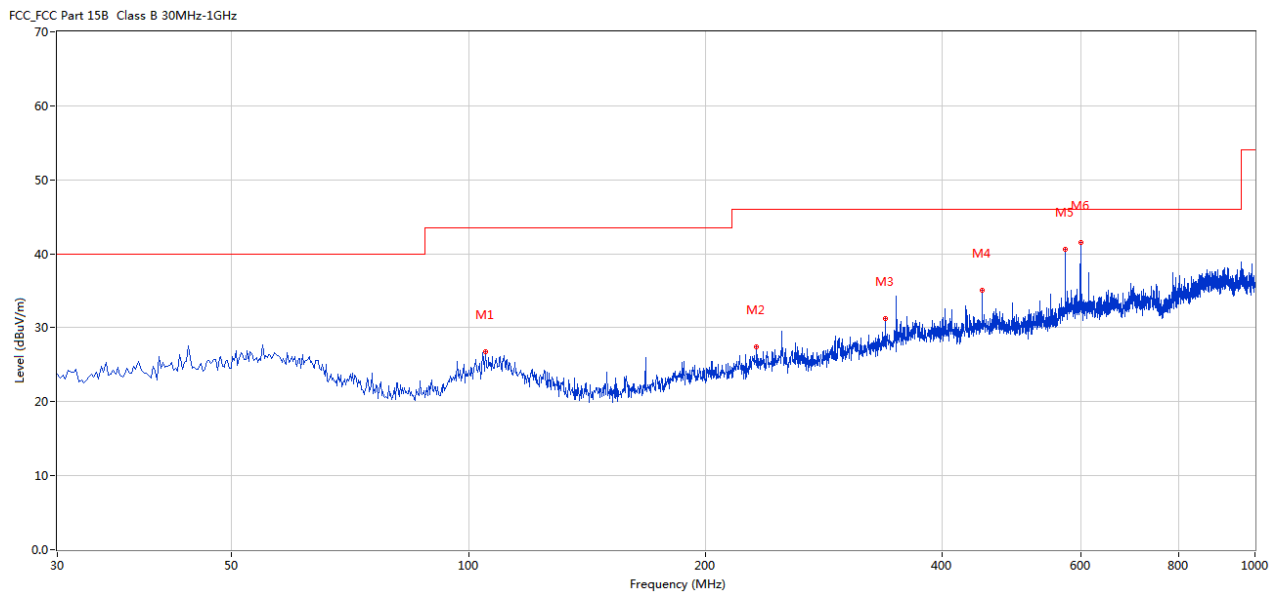
Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: Pass



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1 | 105.156 | 26.80 | -6.20 | 43.5 | 16.70 | Peak | 231.00 | 100 | Vertical | Pass |
| 2 | 232.437 | 27.43 | -5.41 | 46.0 | 18.57 | Peak | 202.00 | 100 | Vertical | Pass |
| 3 | 338.868 | 31.26 | -3.09 | 46.0 | 14.74 | Peak | 202.00 | 100 | Vertical | Pass |
| 4 | 449.905 | 35.09 | -0.89 | 46.0 | 10.91 | Peak | 268.00 | 100 | Vertical | Pass |
| 5 | 573.549 | 40.64 | 1.08 | 46.0 | 5.36 | Peak | 11.00 | 100 | Vertical | Pass |
| 6 | 599.975 | 41.49 | 1.61 | 46.0 | 4.51 | Peak | 356.00 | 100 | Vertical | Pass |

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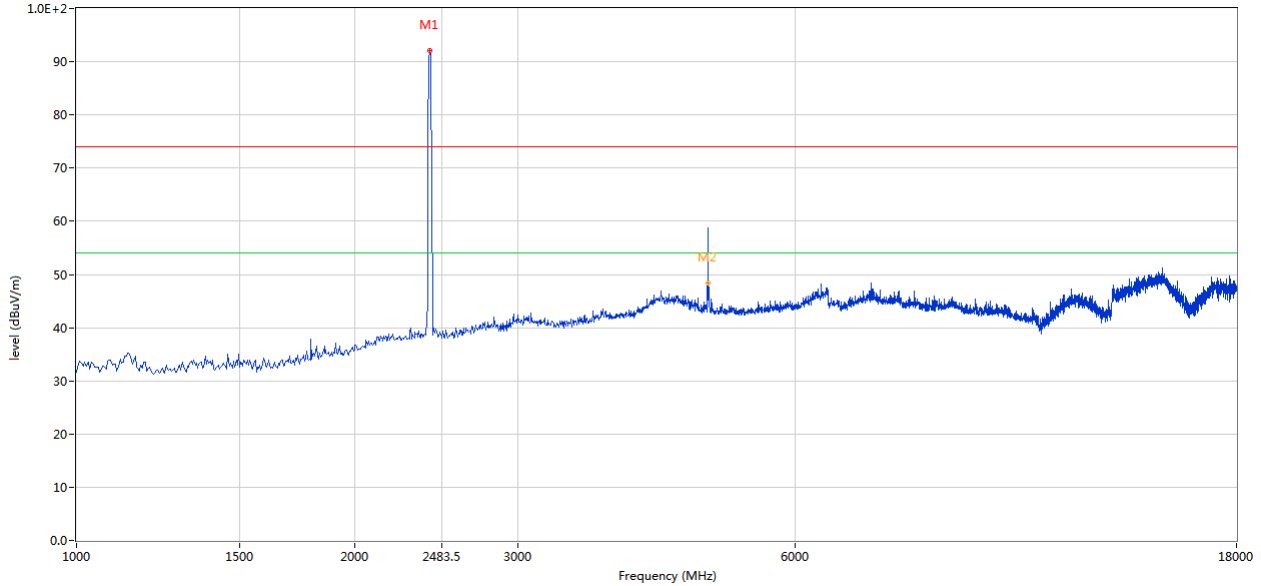
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Please refer to the following test plots for details:

CH01 for 11g at 6Mbps: Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 1 | 2412 | 92.02 | -3.57 | 74.0 | 18.02 | Peak | 265.00 | 100 | Horizontal | N/A |
| 2 | 4824.044 | 58.68 | 3.14 | 74.0 | -15.32 | Peak | 280.00 | 100 | Horizontal | Pass |
| 2** | 4824.044 | 48.49 | 3.14 | 54.0 | -5.51 | AV | 280.00 | 100 | Horizontal | Pass |

The report refers only to the sample tested and does not apply to the bulk.

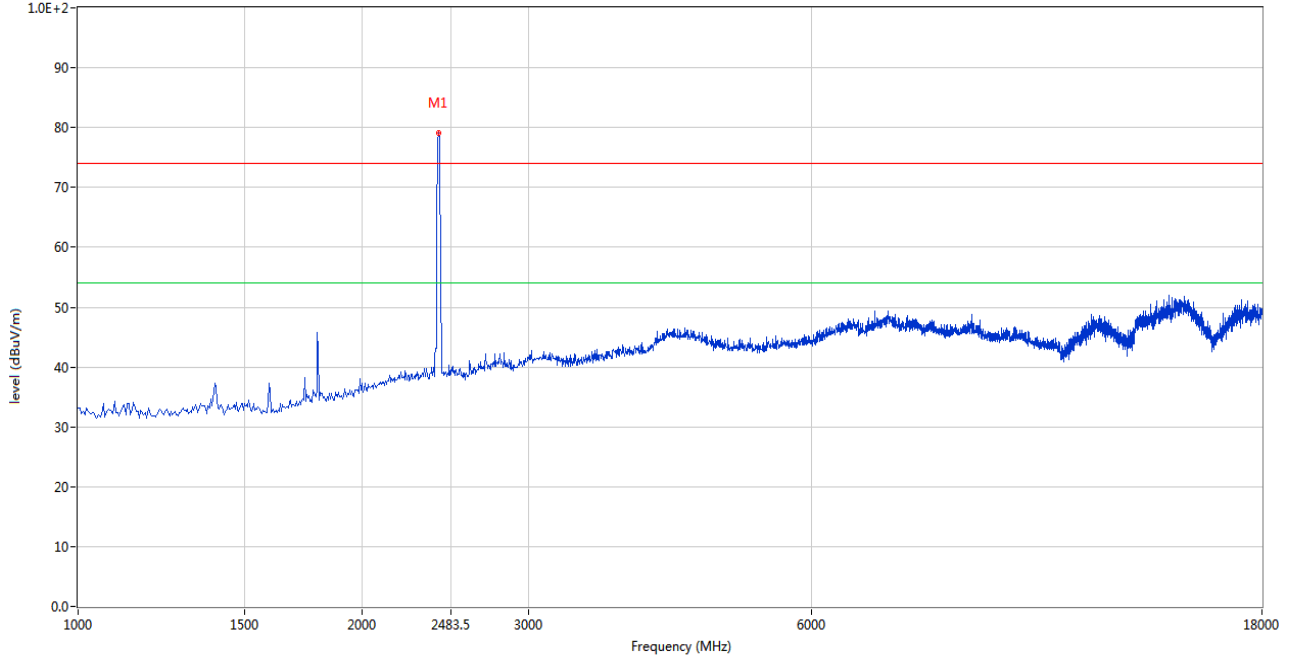
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CH01 for 11g at 6Mbps: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 1 | 2412 | 79.18 | -3.57 | 74.0 | 5.18 | Peak | 1.00 | 100 | Vertical | N/A |

The report refers only to the sample tested and does not apply to the bulk.

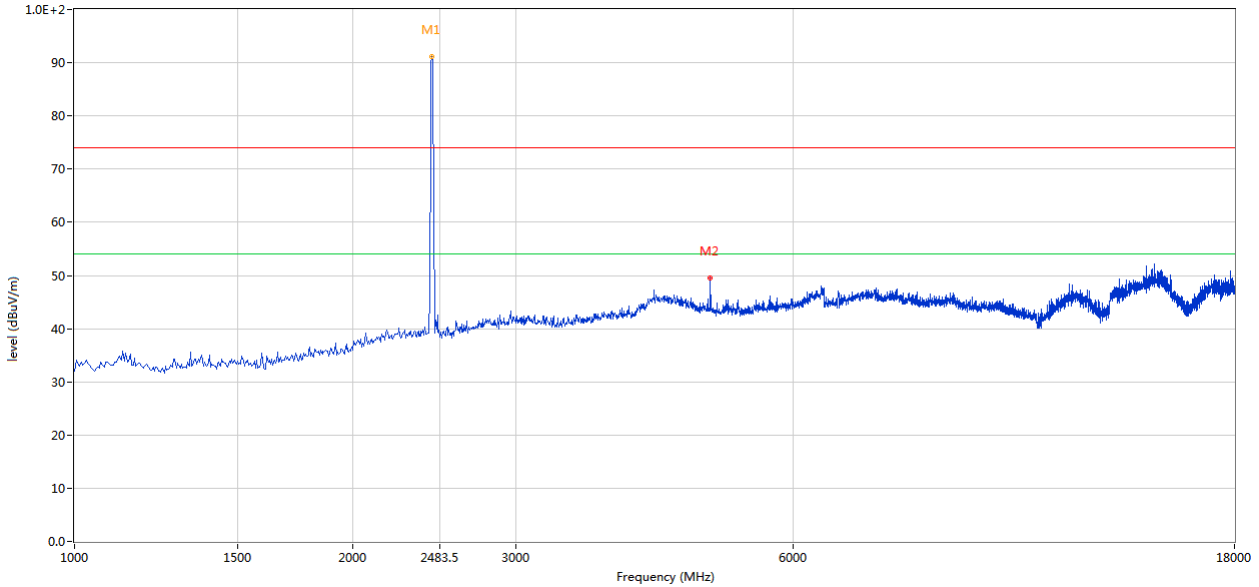
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CH06 for 11g at 6Mbps: Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 1 | 2437 | 91.17 | -3.57 | 74.0 | 17.17 | Peak | 84.00 | 100 | Horizontal | N/A |
| 2 | 4875.031 | 49.54 | 3.19 | 74.0 | -24.46 | Peak | 259.00 | 100 | Horizontal | Pass |

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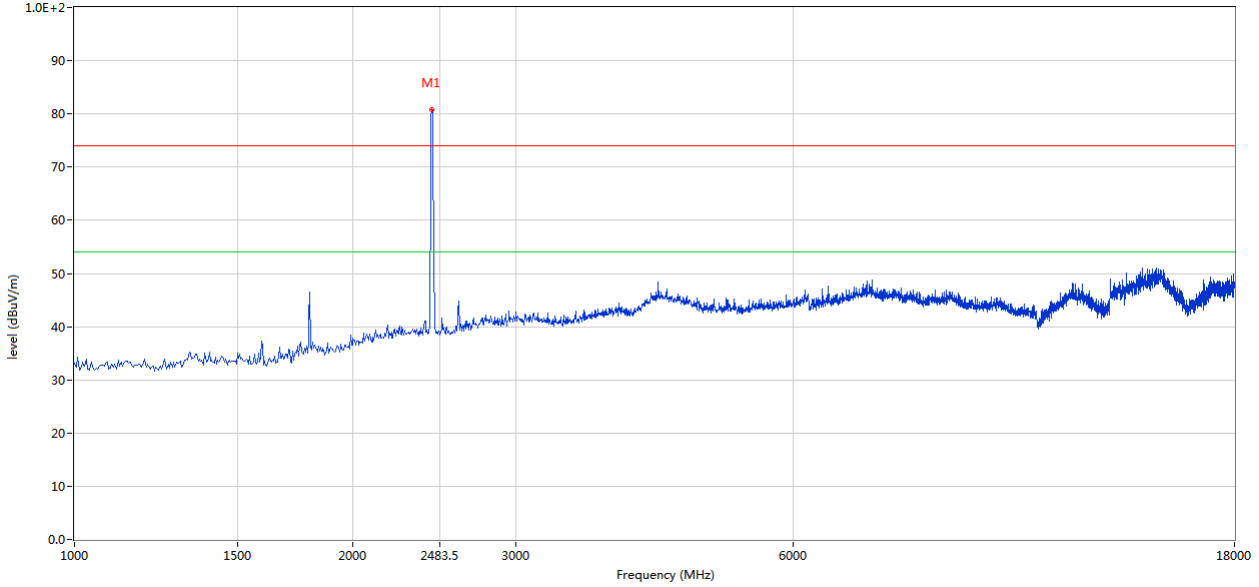
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CH06 for 11g at 6Mbps: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 1 | 2437 | 80.88 | -3.57 | 74.0 | 6.88 | Peak | 360.00 | 100 | Vertical | N/A |

The report refers only to the sample tested and does not apply to the bulk.

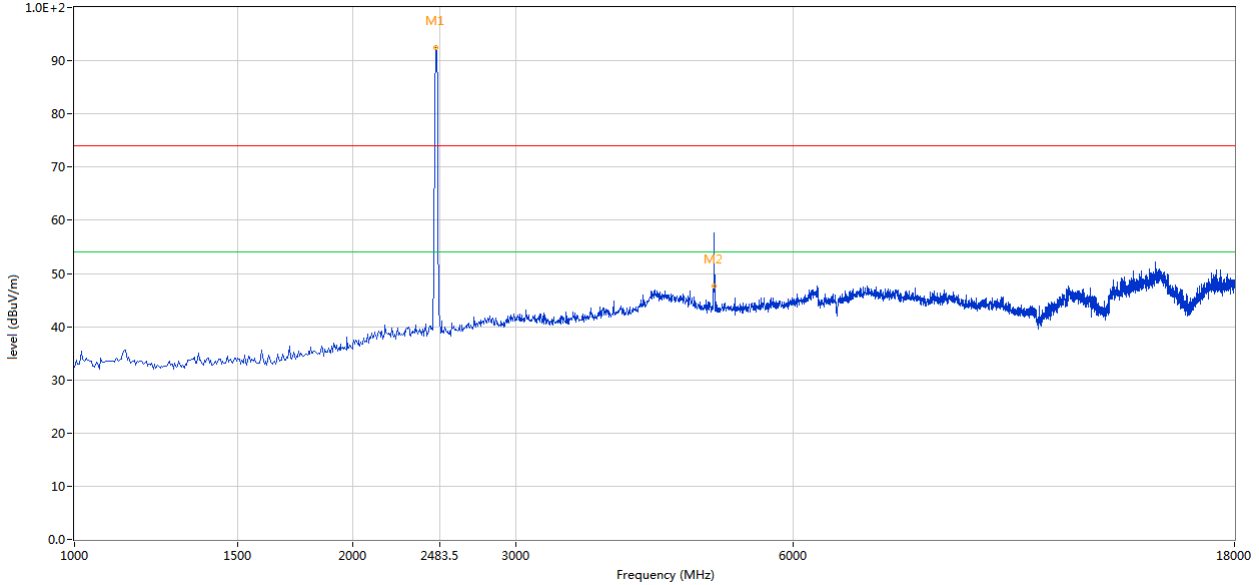
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CH11 for 11g at 6Mbps: Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 1 | 2462 | 92.41 | -3.57 | 74.0 | 18.41 | Peak | 286.00 | 100 | Horizontal | N/A |
| 2 | 4921.770 | 57.64 | 3.27 | 74.0 | -16.36 | Peak | 281.00 | 100 | Horizontal | Pass |
| 2** | 4921.770 | 47.62 | 3.27 | 54.0 | -6.38 | AV | 281.00 | 100 | Horizontal | Pass |

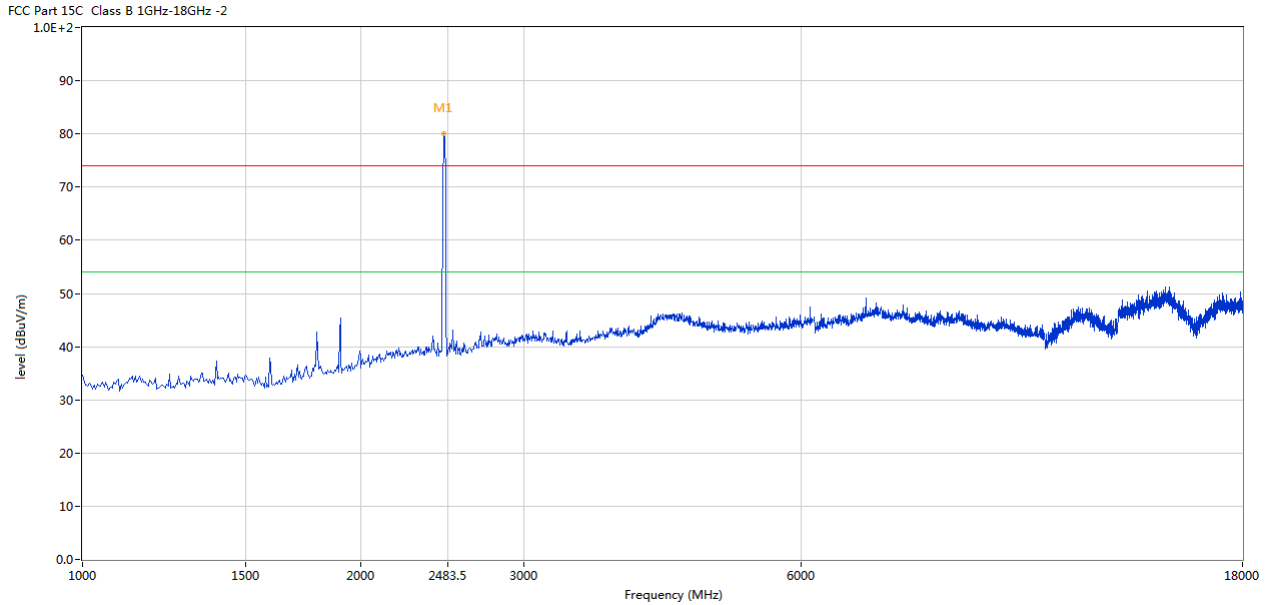
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CH11 for 11g at 6Mbps: Vertical



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 1 | 2462 | 80.05 | -3.57 | 74.0 | 6.05 | Peak | 43.00 | 100 | Vertical | N/A |

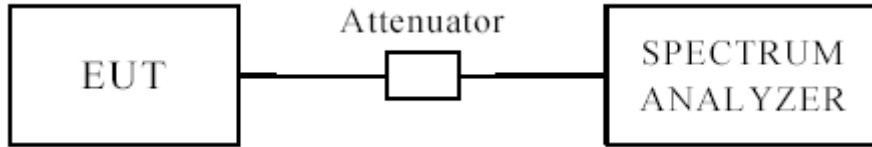
- Note: 1. Result Level = Reading + Factor
 2. Factor= AF + Cable Loss- Preamp
 3. Margin = Result- Limit
 4. For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
 5. Note: the final peak measurement results less than the AV limit. No necessary to take down the final AV measurement result

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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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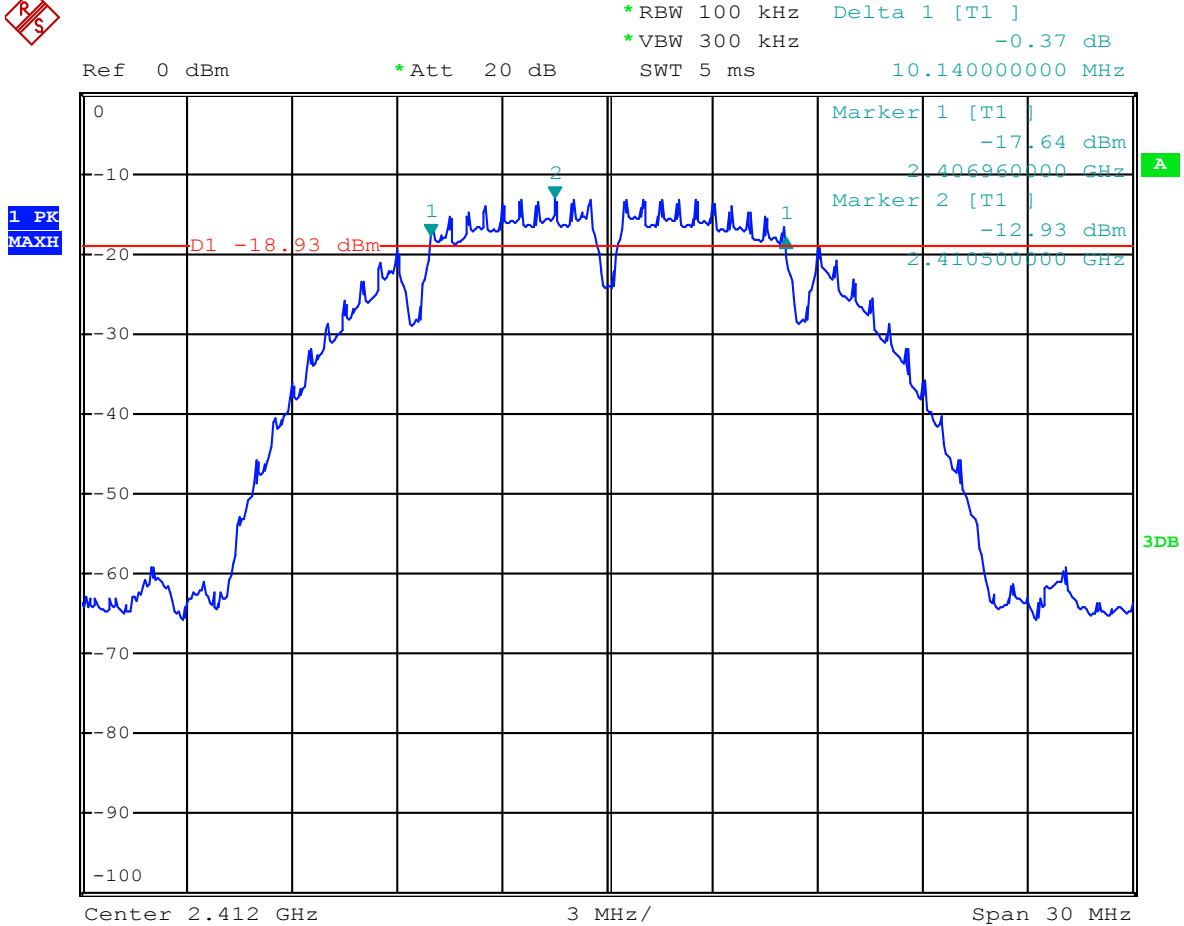
6dB Occupied Bandwidth

| EUT | | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
|-------------|-------------------------|---------------------------|----------------------|---------------------|-------------------|
| Mode | | 802.11b | | Test Voltage | DC3.7V |
| Temperature | | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | Data Transfer Rate (Mbps) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass/ Fail |
| 1 | 2412 | 1 | 10.14 | 0.5 | Pass |
| 6 | 2437 | 1 | 10.08 | 0.5 | Pass |
| 11 | 2462 | 1 | 10.08 | 0.5 | Pass |
| 1 | 2412 | 11 | 11.10 | 0.5 | Pass |
| 6 | 2437 | 11 | 10.80 | 0.5 | Pass |
| 11 | 2462 | 11 | 11.04 | 0.5 | Pass |

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1. 802.11b at 1Mbps of CH01

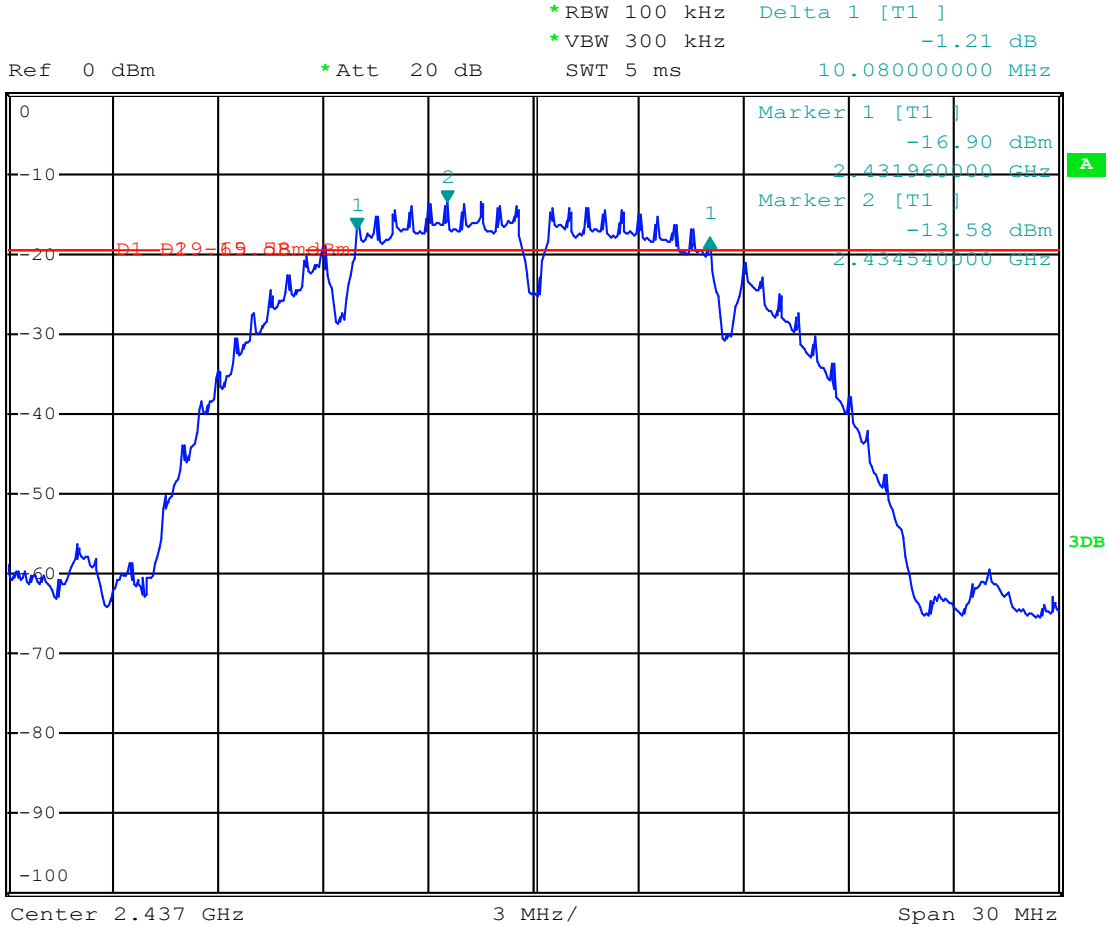


Date: 08.JAN.2025 11:17:40

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2. 802.11b at 1Mbps of CH06

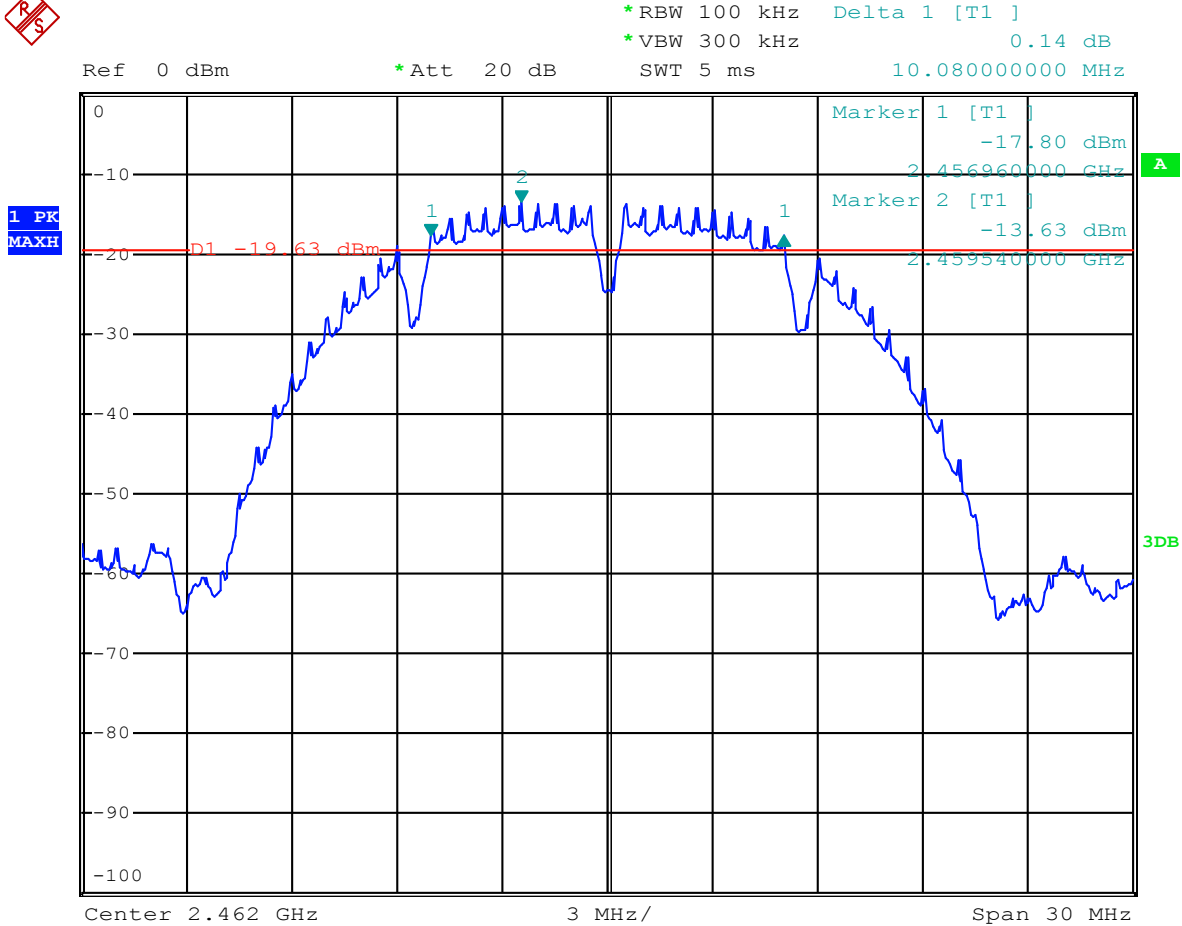


Date: 08.JAN.2025 13:53:37

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3. 802.11b at 1Mbps of CH11

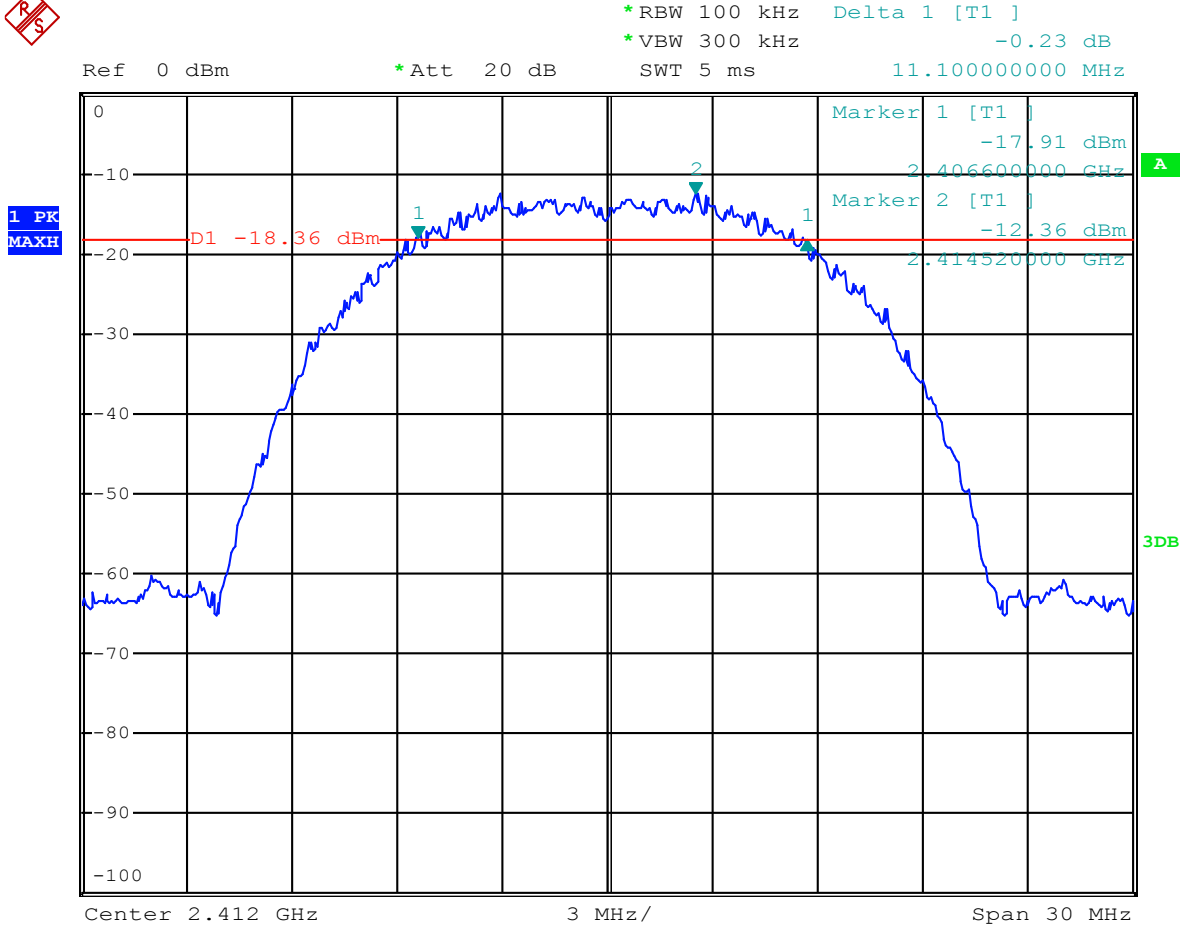


Date: 08.JAN.2025 14:22:26

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4. 802.11b at 11Mbps of CH01

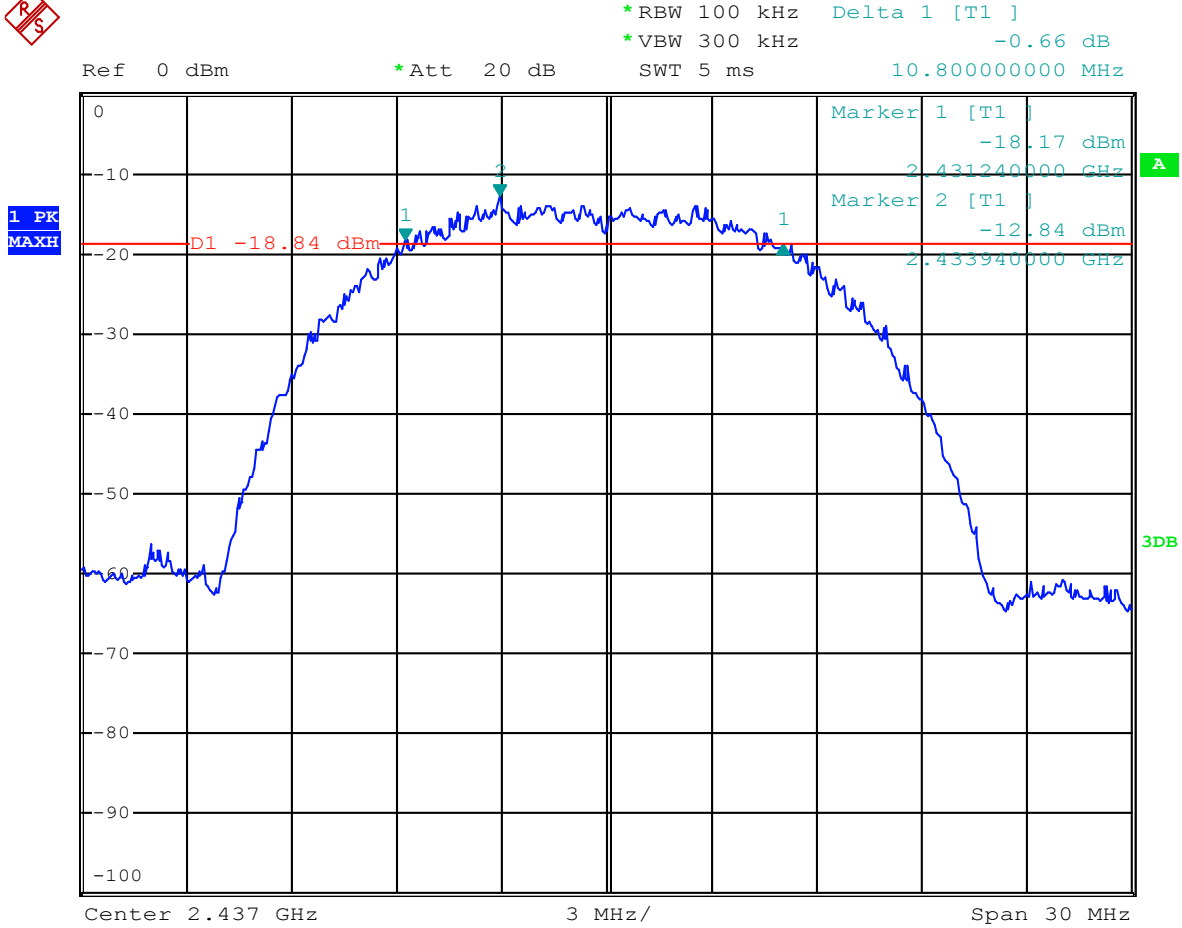


Date: 08.JAN.2025 11:26:51

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5. 802.11b at 11Mbps of CH06

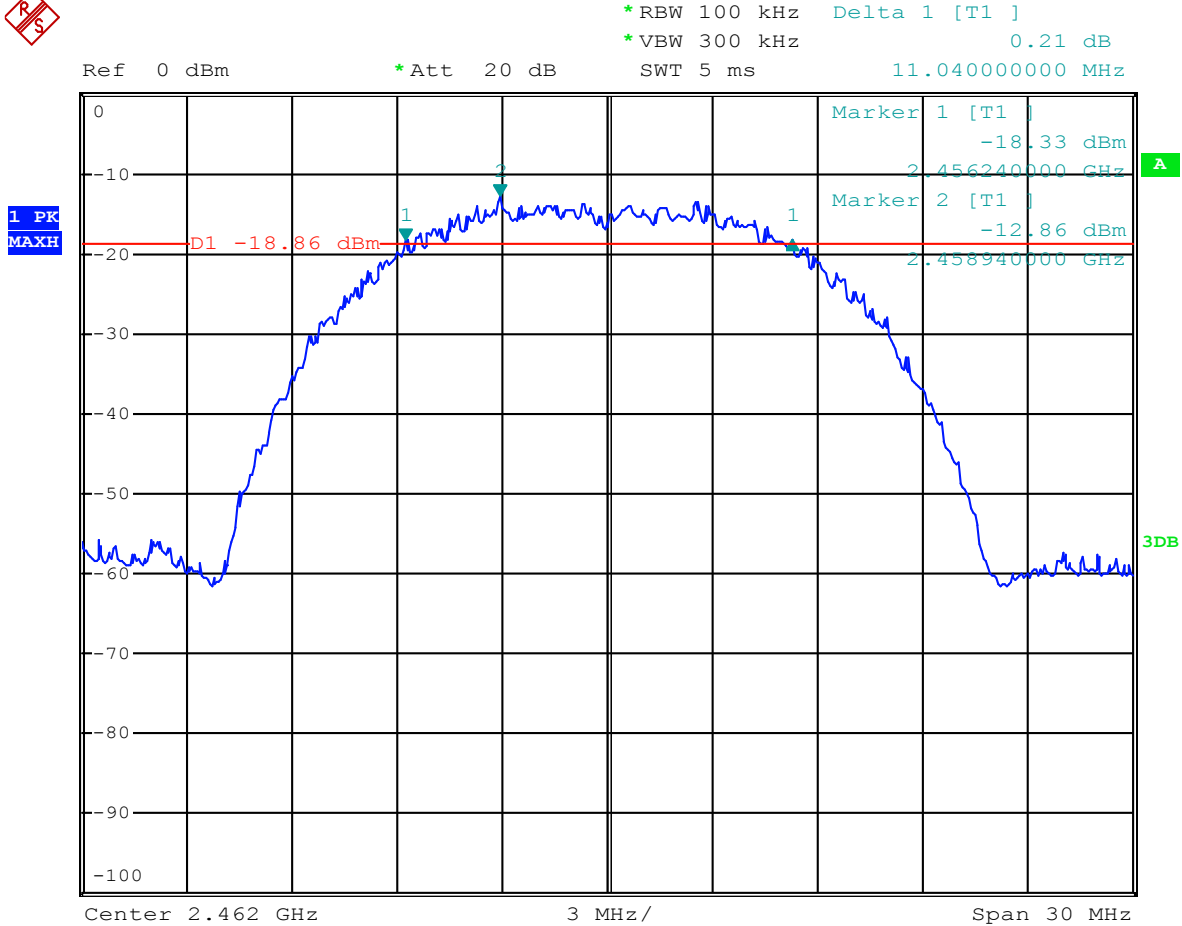


Date: 08.JAN.2025 13:57:52

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6. 802.11b at 11Mbps of CH11



Date: 08.JAN.2025 14:15:37

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6dB Occupied Bandwidth

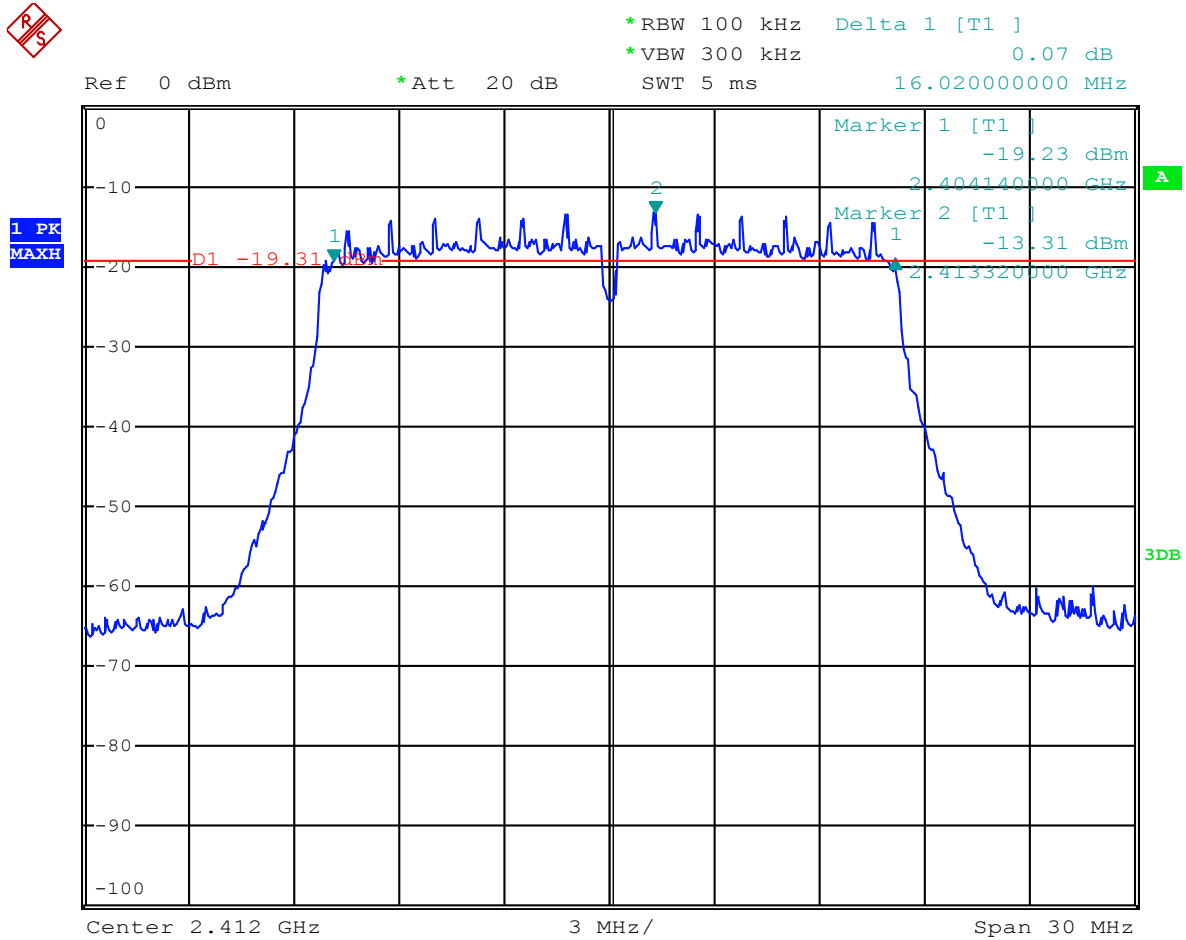
| EUT | | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
|-------------|-------------------------|---------------------------|----------------------|---------------------|-------------------|
| Mode | | 802.11g | | Test Voltage | DC3.7V |
| Temperature | | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | Data Transfer Rate (Mbps) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass/ Fail |
| 1 | 2412 | 6 | 16.02 | 0.5 | Pass |
| 6 | 2437 | 6 | 15.72 | 0.5 | Pass |
| 11 | 2462 | 6 | 16.38 | 0.5 | Pass |

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Test Plots:

1. 802.11g at 6Mbps of CH01

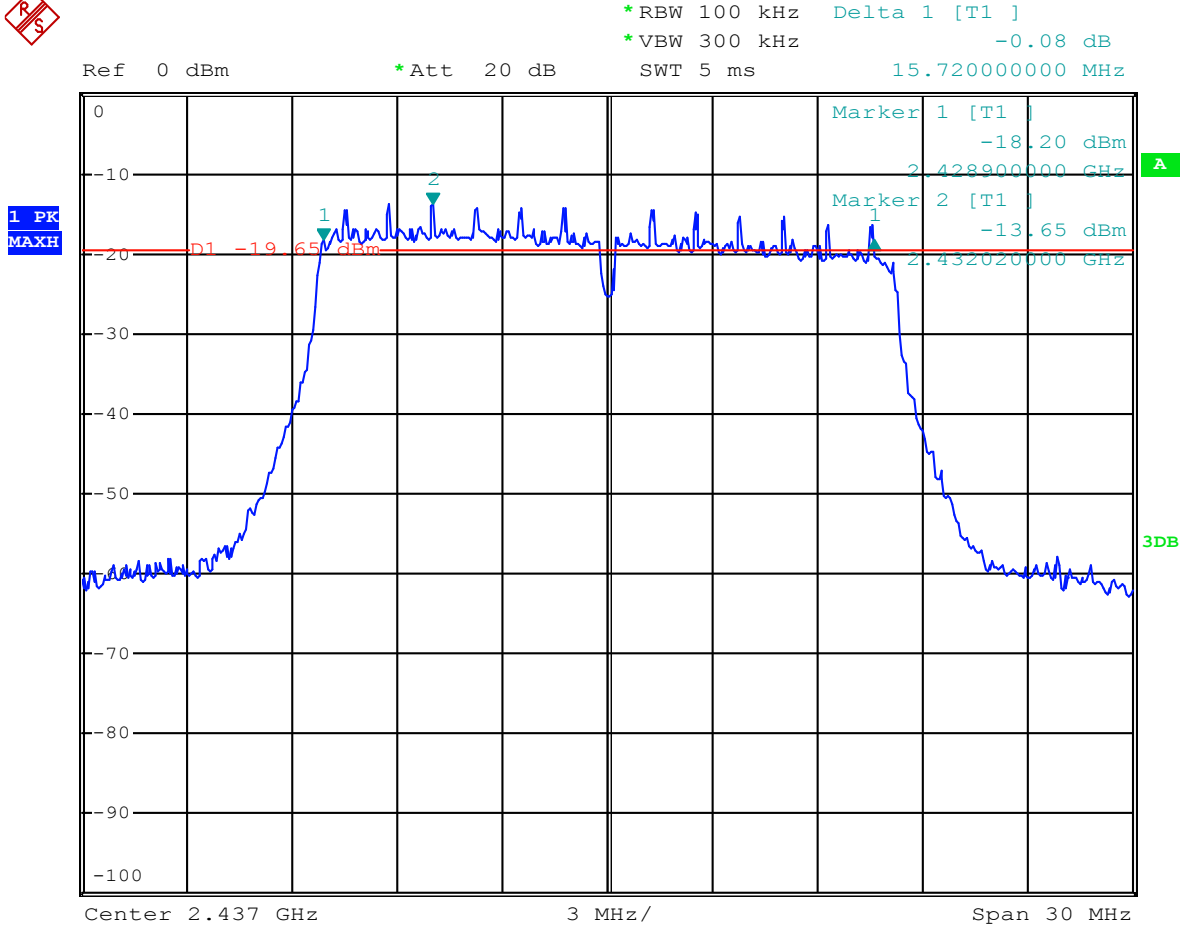


Date: 08.JAN.2025 11:30:13

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2. 802.11g at 6Mbps of CH06

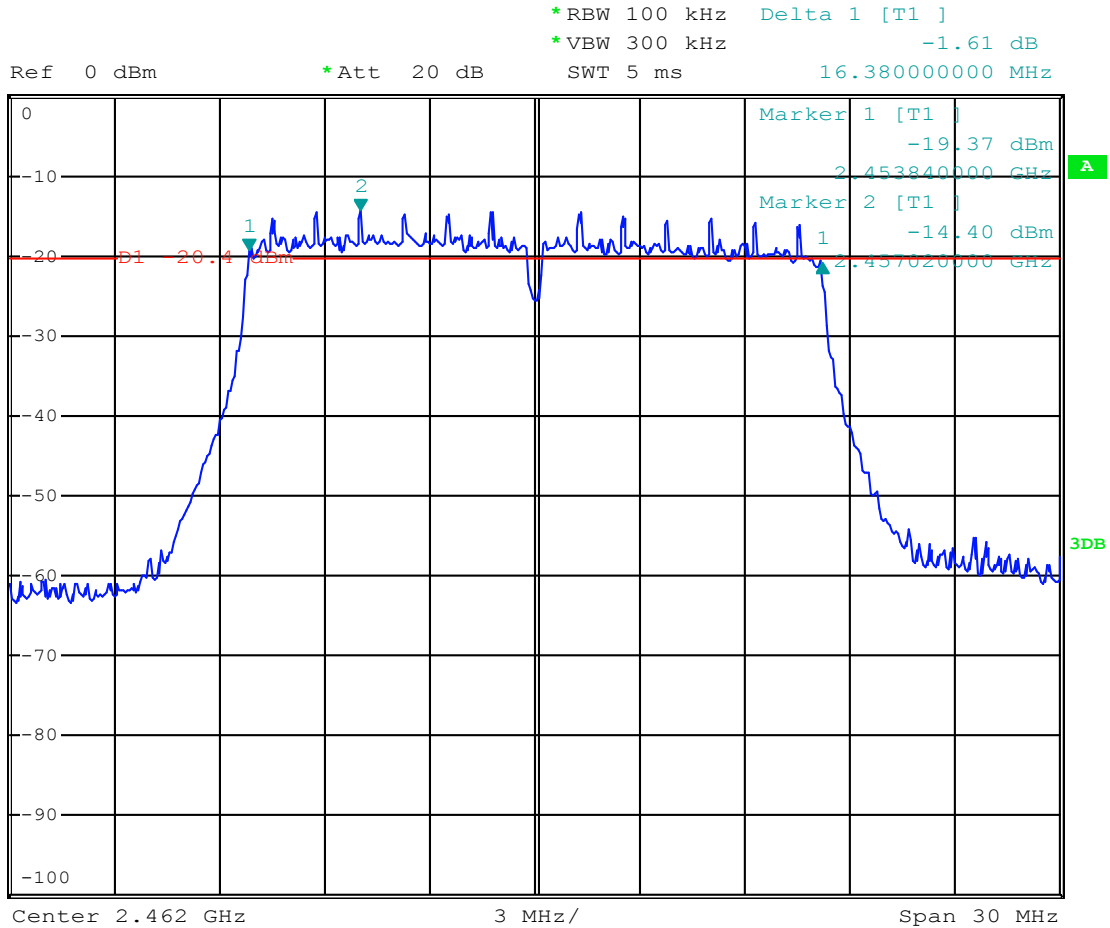


Date: 08.JAN.2025 13:44:48

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3. 802.11g at 6Mbps of CH11



Date: 08.JAN.2025 14:26:57

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6dB Occupied Bandwidth

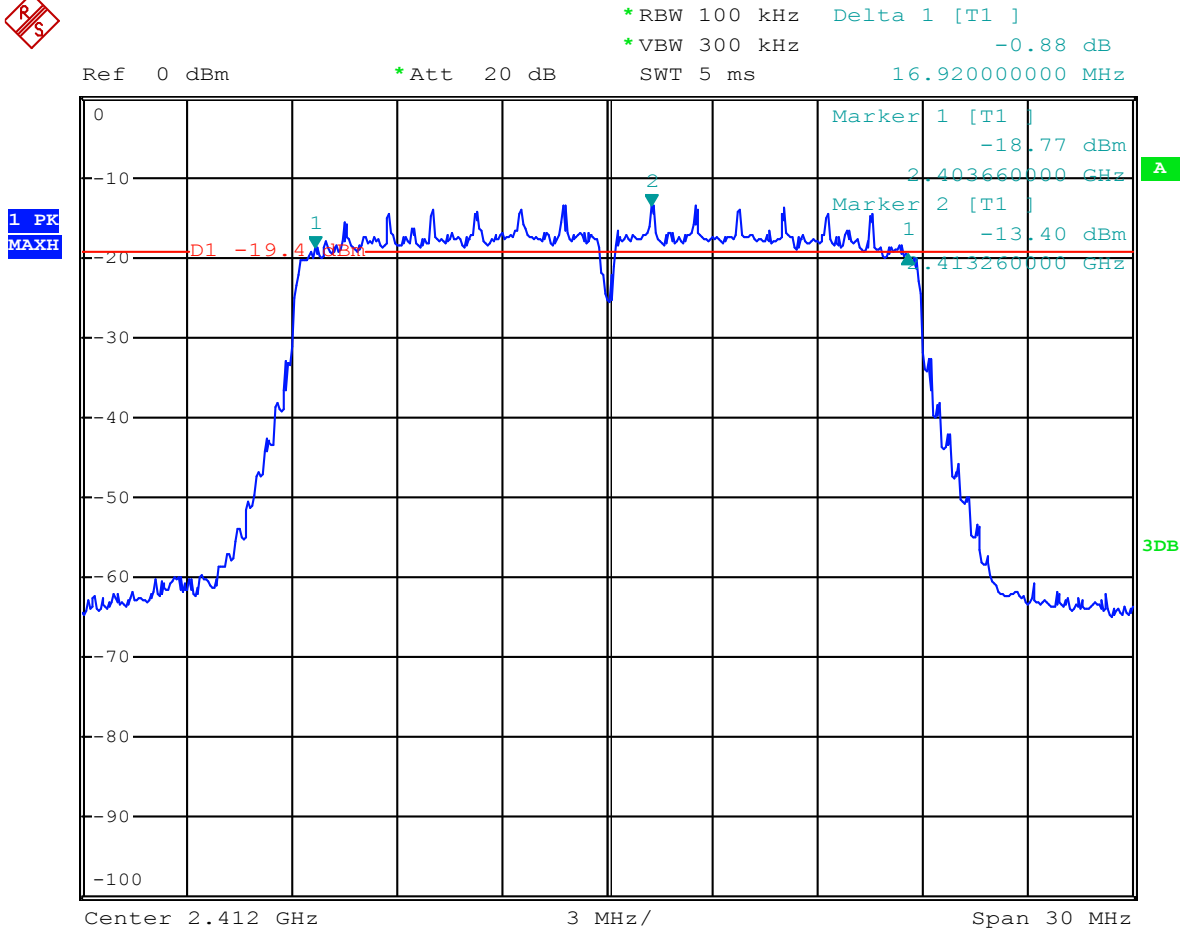
| EUT | | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
|-------------|-------------------------|---------------------------|----------------------|---------------------|-------------------|
| Mode | | 802.11n HT20 | | Test Voltage | DC3.7V |
| Temperature | | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | Data Transfer Rate (Mbps) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass/ Fail |
| 1 | 2412 | 6.5 | 16.92 | 0.5 | Pass |
| 6 | 2437 | 6.5 | 16.38 | 0.5 | Pass |
| 11 | 2462 | 6.5 | 16.92 | 0.5 | Pass |

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Test Plots:

1. 802.11n at HT20 of CH01

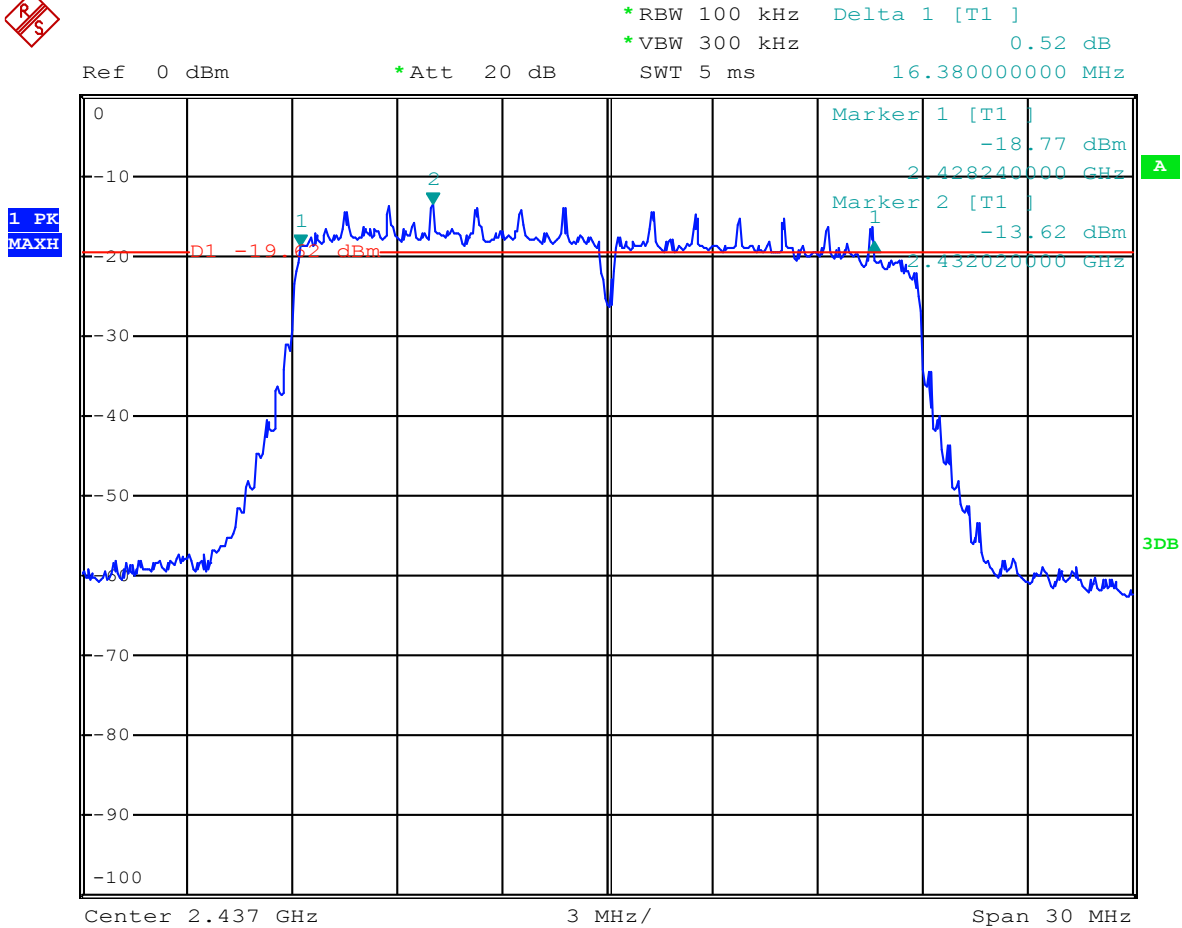


Date: 08.JAN.2025 11:34:13

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2. 802.11n at HT20 of CH06

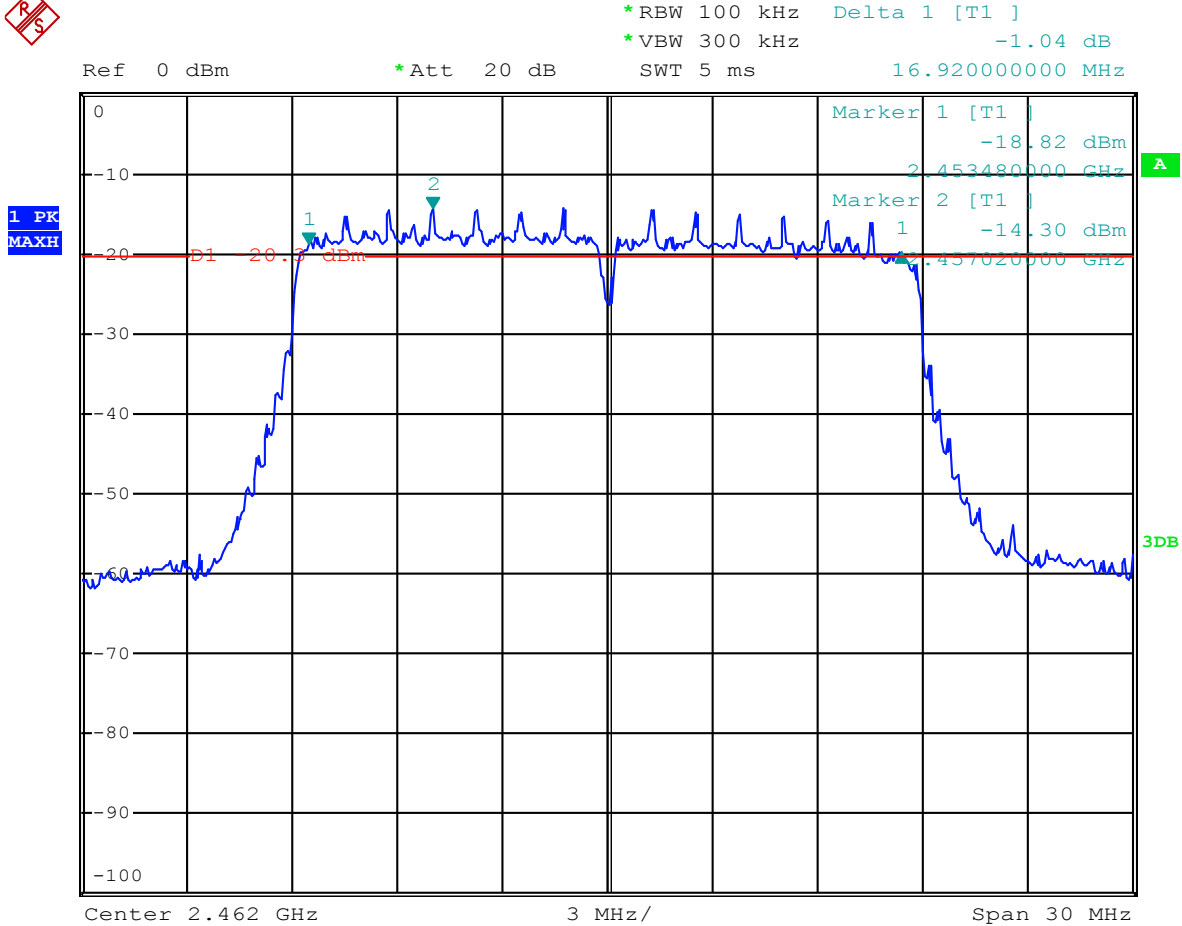


Date: 08.JAN.2025 13:38:51

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3. 802.11n at HT20 of CH11



Date: 08.JAN.2025 14:34:53

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6dB Occupied Bandwidth

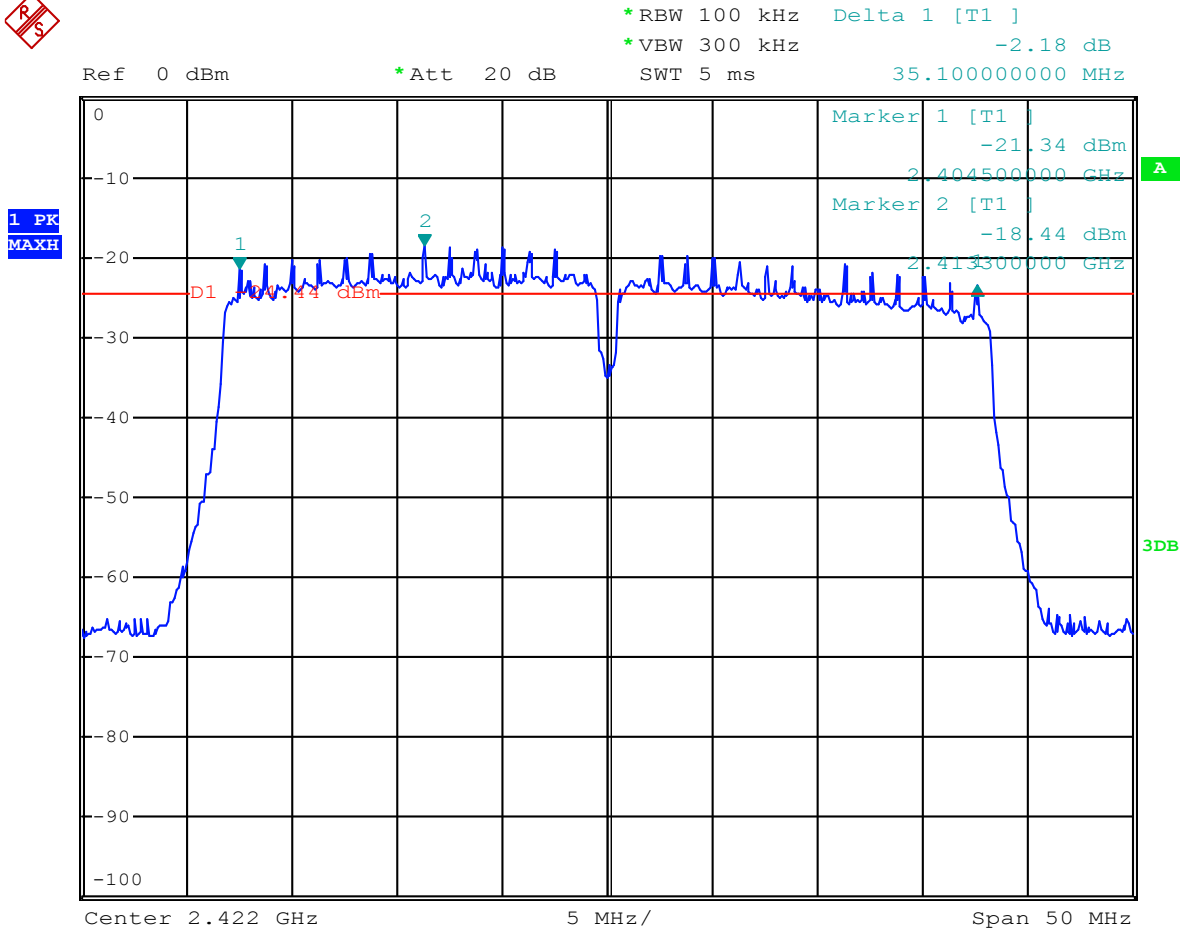
| EUT | | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
|-------------|-------------------------|---------------------------|----------------------|---------------------|-------------------|
| Mode | | 802.11n HT40 | | Test Voltage | DC3.7V |
| Temperature | | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | Data Transfer Rate (Mbps) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass/ Fail |
| 3 | 2422 | mcs0 | 35.10 | 0.5 | Pass |
| 6 | 2437 | mcs0 | 35.70 | 0.5 | Pass |
| 9 | 2452 | mcs0 | 35.70 | 0.5 | Pass |

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Test Plots:

1. 802.11n at HT40 of CH03



Date: 08.JAN.2025 14:37:23

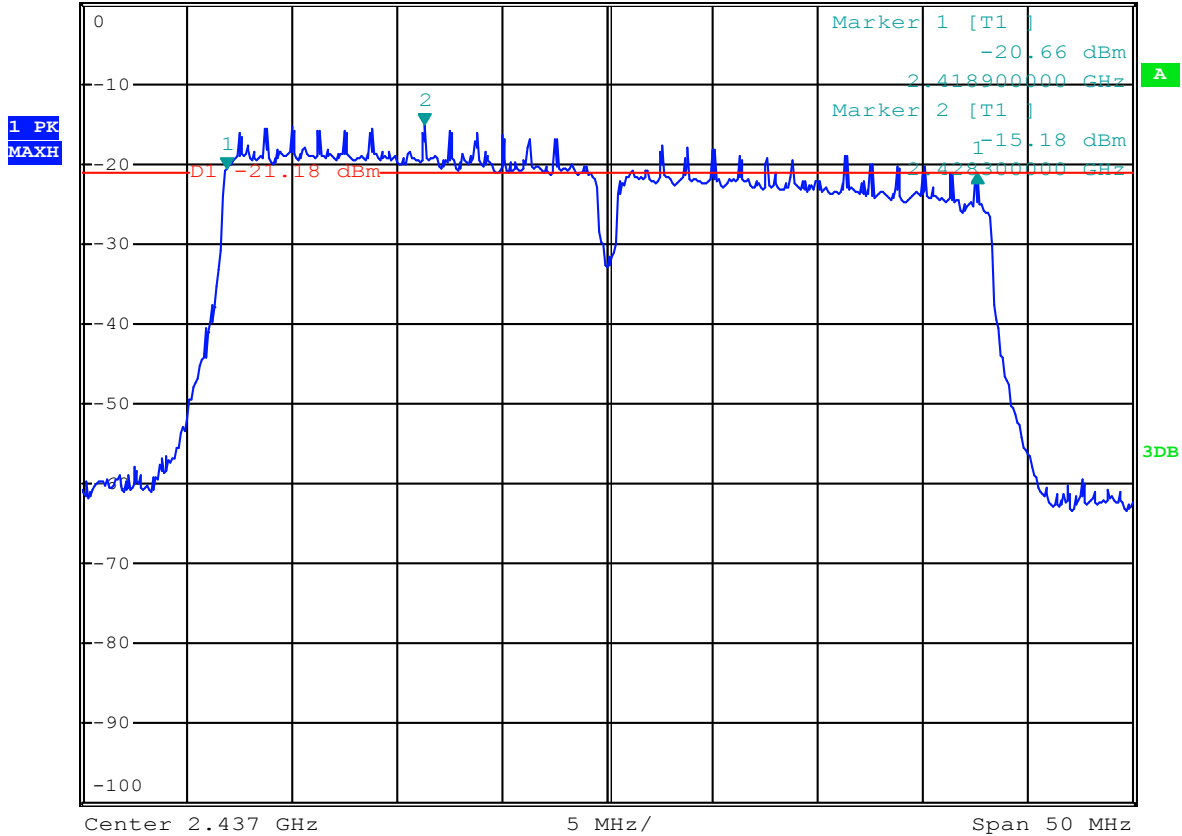
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2. 802.11n at HT40 of CH06



*RBW 100 kHz Delta 1 [T1]
 *VBW 300 kHz -0.55 dB
 Ref 0 dBm *Att 20 dB SWT 5 ms 35.700000000 MHz

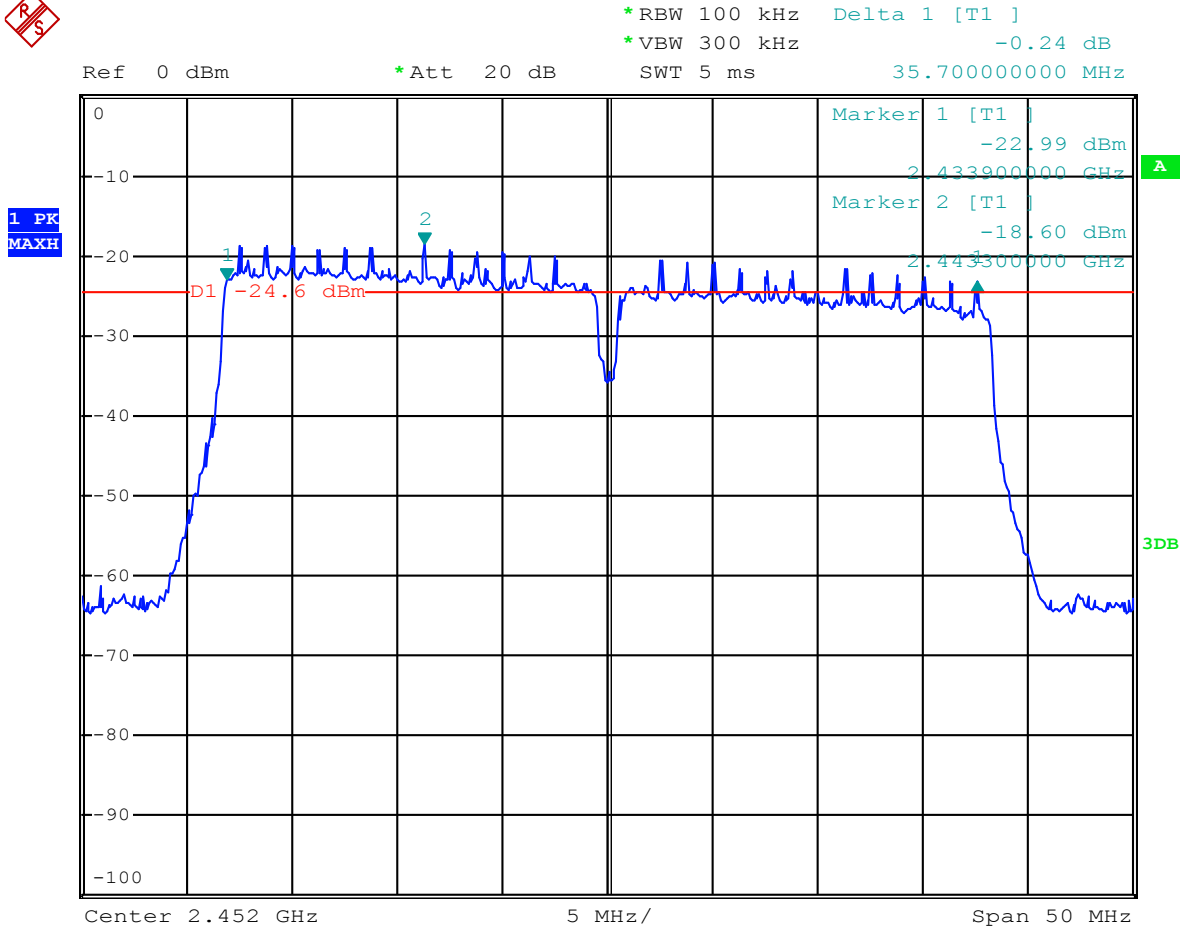


Date: 08.JAN.2025 14:48:26

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3. 802.11n at HT40 of CH09



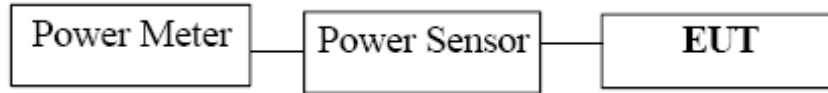
Date: 08.JAN.2025 14:56:11

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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: The AV power was measured

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8.4 Test Results

| EUT | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
|-------------|-----------------|----------------|-------------------|-------------------|
| Mode | 802.11b | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Channel | Frequency (MHz) | AV Power (dBm) | Power Limit (dBm) | Pass/ Fail |
| 1 | 2412 | 3.25 | 30 | Pass |
| 6 | 2437 | 2.88 | 30 | Pass |
| 11 | 2462 | 2.49 | 30 | Pass |

Note: 1. At final test to get the worst-case emission at 1Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

| EUT | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
|-------------|-----------------|----------------|-------------------|-------------------|
| Mode | 802.11g | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Channel | Frequency (MHz) | AV Power (dBm) | Power Limit (dBm) | Pass/ Fail |
| 1 | 2412 | 2.18 | 30 | Pass |
| 6 | 2437 | 2.15 | 30 | Pass |
| 11 | 2462 | 1.32 | 30 | Pass |

Note: 1. At final test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

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| EUT | | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
|-------------|-----------------|----------------|--|-------------------|-------------------|
| Mode | | 802.11n (HT20) | | Test Voltage | DC3.7V |
| Temperature | | 24 deg. C, | | Humidity | 56% RH |
| Channel | Frequency (MHz) | AV Power (dBm) | | Power Limit (dBm) | Pass/ Fail |
| 1 | 2412 | 2.23 | | 30 | Pass |
| 6 | 2437 | 2.20 | | 30 | Pass |
| 11 | 2462 | 1.46 | | 30 | Pass |

- Note: 1. At final test to get the worst-case emission at mcs0 of 11n HT20 for CH01, CH06 and CH11
 2. The result basic equation calculation as follow:
 Power Output = Power Reading + Cable loss + Attenuator
 3. The worse case was recorded

| EUT | | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
|-------------|-----------------|----------------|--|-------------------|-------------------|
| Mode | | 802.11n (HT40) | | Test Voltage | DC3.7V |
| Temperature | | 24 deg. C, | | Humidity | 56% RH |
| Channel | Frequency (MHz) | AV Power (dBm) | | Power Limit (dBm) | Pass/ Fail |
| 3 | 2422 | 1.89 | | 30 | Pass |
| 6 | 2437 | 1.76 | | 30 | Pass |
| 9 | 2452 | 1.05 | | 30 | Pass |

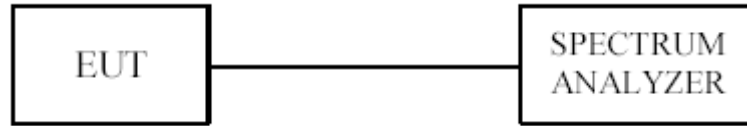
- Note: 1. At final test to get the worst-case emission at msc0 of 11n HT40 for CH03, CH06 and CH09
 2. The result basic equation calculation as follow:
 Power Output = Power Reading + Cable loss + Attenuator
 3. The worse case was recorded

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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW \geq 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be \leq 8 dBm/3kHz.

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9.4 Test Result

| EUT | | ATN X-Sight 5 | | Model | | X-Sight 3-15x LRF | |
|-------------|-----------------|------------------------------------|--|------------------|------------|-------------------|--|
| Mode | | 802.11b 11Mbps | | Test Voltage | | DC3.7V | |
| Temperature | | 24 deg. C, | | Humidity | | 56% RH | |
| Channel | Frequency (MHz) | Power Spectral Density (dBm/10kHz) | | Limit (dBm/3kHz) | Pass/ Fail | | |
| 1 | 2412 | -19.11 | | 8 | Pass | | |
| 6 | 2437 | -22.67 | | 8 | Pass | | |
| 11 | 2462 | -22.03 | | 8 | Pass | | |

| EUT | | ATN X-Sight 5 | | Model | | X-Sight 3-15x LRF | |
|-------------|-----------------|------------------------------------|--|------------------|------------|-------------------|--|
| Mode | | 802.11b 1Mbps | | Test Voltage | | DC3.7V | |
| Temperature | | 24 deg. C, | | Humidity | | 56% RH | |
| Channel | Frequency (MHz) | Power Spectral Density (dBm/10kHz) | | Limit (dBm/3kHz) | Pass/ Fail | | |
| 1 | 2412 | -20.19 | | 8 | Pass | | |
| 6 | 2437 | -22.88 | | 8 | Pass | | |
| 11 | 2462 | -22.83 | | 8 | Pass | | |

| EUT | | ATN X-Sight 5 | | Model | | X-Sight 3-15x LRF | |
|-------------|-----------------|------------------------------------|--|------------------|------------|-------------------|--|
| Mode | | 802.11g 6Mbps | | Test Voltage | | DC3.7V | |
| Temperature | | 24 deg. C, | | Humidity | | 56% RH | |
| Channel | Frequency (MHz) | Power Spectral Density (dBm/10kHz) | | Limit (dBm/3kHz) | Pass/ Fail | | |
| 1 | 2412 | -21.20 | | 8 | Pass | | |
| 6 | 2437 | -19.60 | | 8 | Pass | | |
| 11 | 2462 | -23.26 | | 8 | Pass | | |

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| EUT | | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
|-------------|-----------------|------------------------------------|--|------------------|-------------------|
| Mode | | 802.11n HT20 6.5Mbps | | Test Voltage | DC3.7V |
| Temperature | | 24 deg. C, | | Humidity | 56% RH |
| Channel | Frequency (MHz) | Power Spectral Density (dBm/10kHz) | | Limit (dBm/3kHz) | Pass/ Fail |
| 1 | 2412 | -21.50 | | 8 | Pass |
| 6 | 2437 | -23.88 | | 8 | Pass |
| 11 | 2462 | -24.07 | | 8 | Pass |

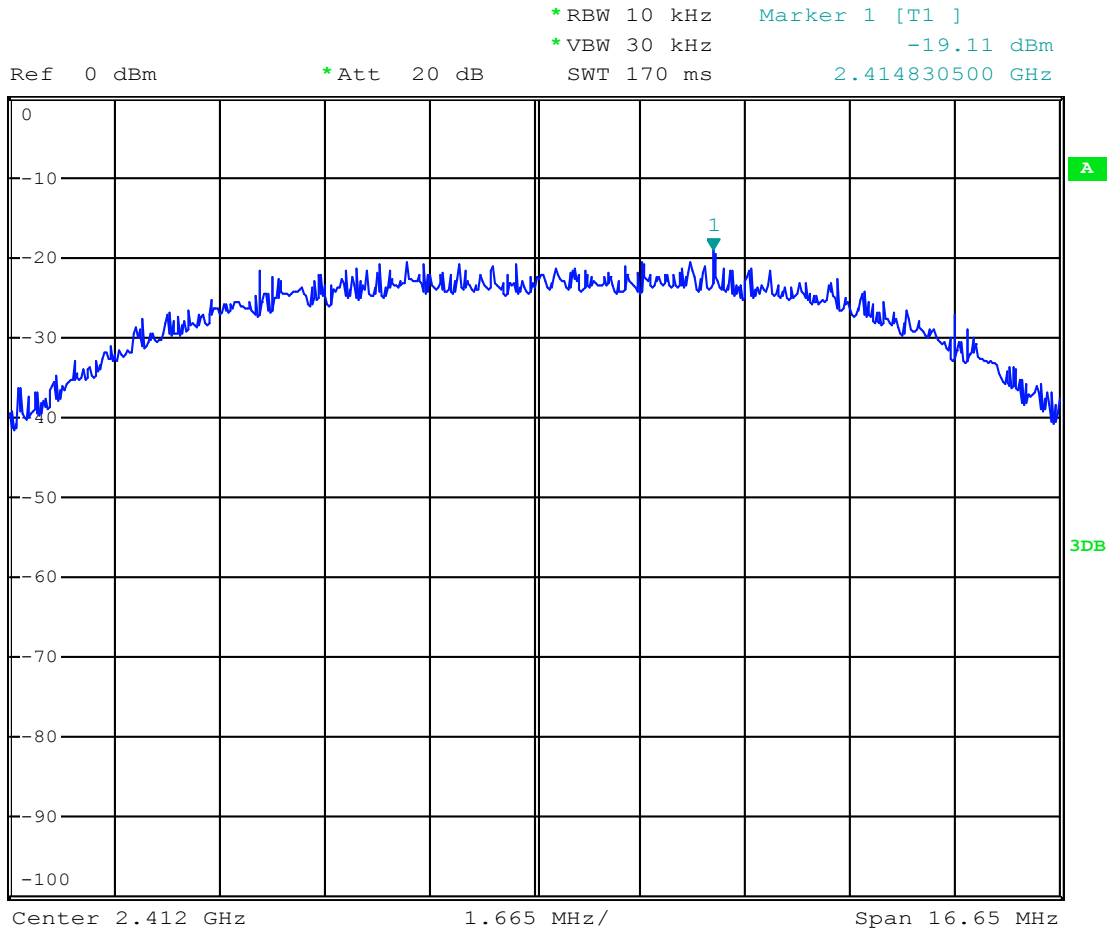
| EUT | | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
|-------------|-----------------|------------------------------------|--|------------------|-------------------|
| Mode | | 802.11n HT40 mcs0 | | Test Voltage | DC3.7V |
| Temperature | | 24 deg. C, | | Humidity | 56% RH |
| Channel | Frequency (MHz) | Power Spectral Density (dBm/10kHz) | | Limit (dBm/3kHz) | Pass/ Fail |
| 3 | 2422 | -23.23 | | 8 | Pass |
| 6 | 2437 | -23.39 | | 8 | Pass |
| 9 | 2452 | -22.57 | | 8 | Pass |

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9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01



Date: 08.JAN.2025 17:23:48

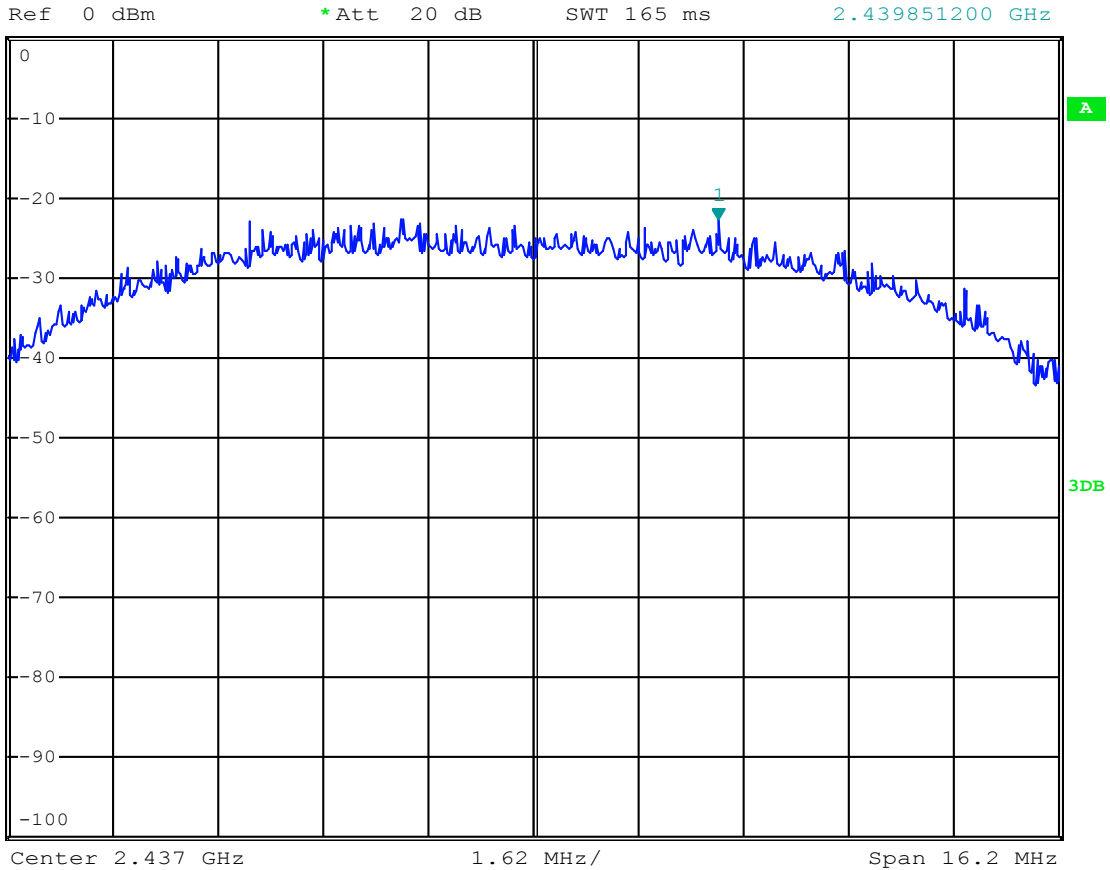
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2. 802.11b at 11Mbps at CH06



*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -22.67 dBm
SWT 165 ms 2.439851200 GHz



Date: 08.JAN.2025 17:26:45

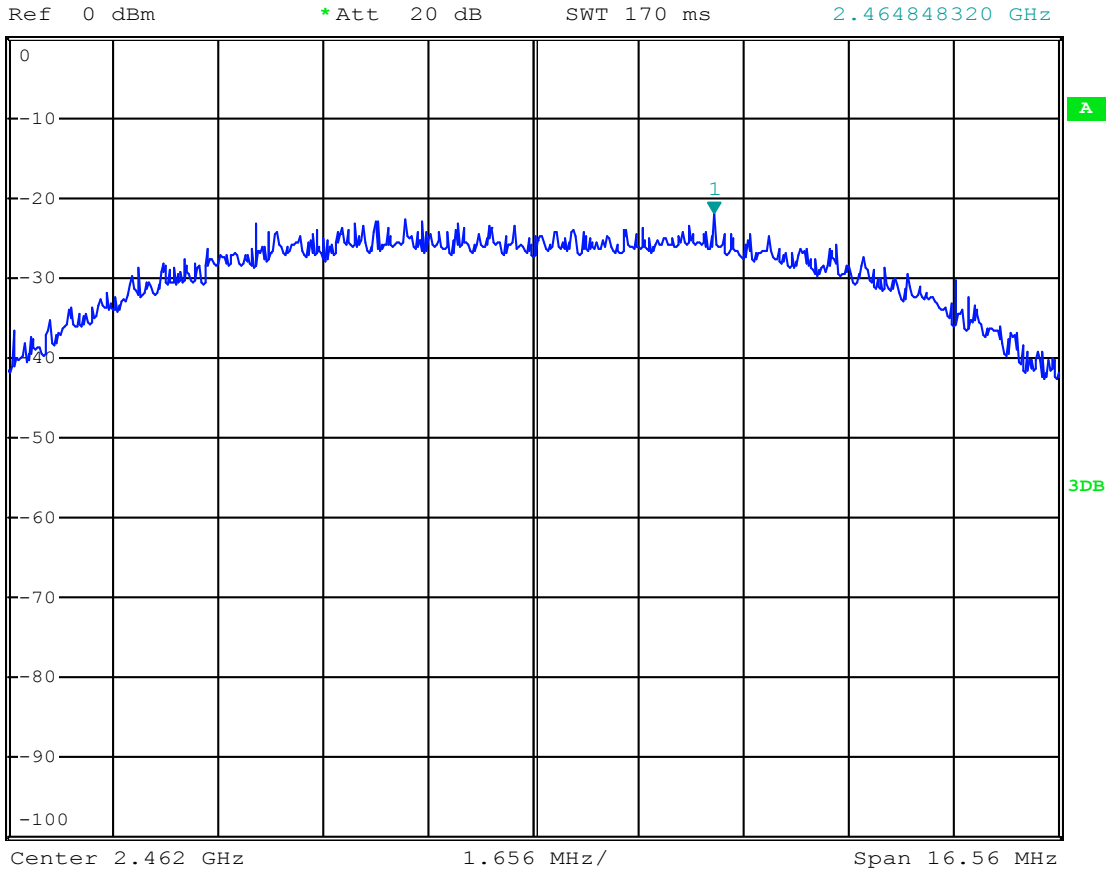
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3. 802.11b at 11Mbps of CH11



*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -22.03 dBm
SWT 170 ms 2.464848320 GHz



Date: 08.JAN.2025 17:29:32

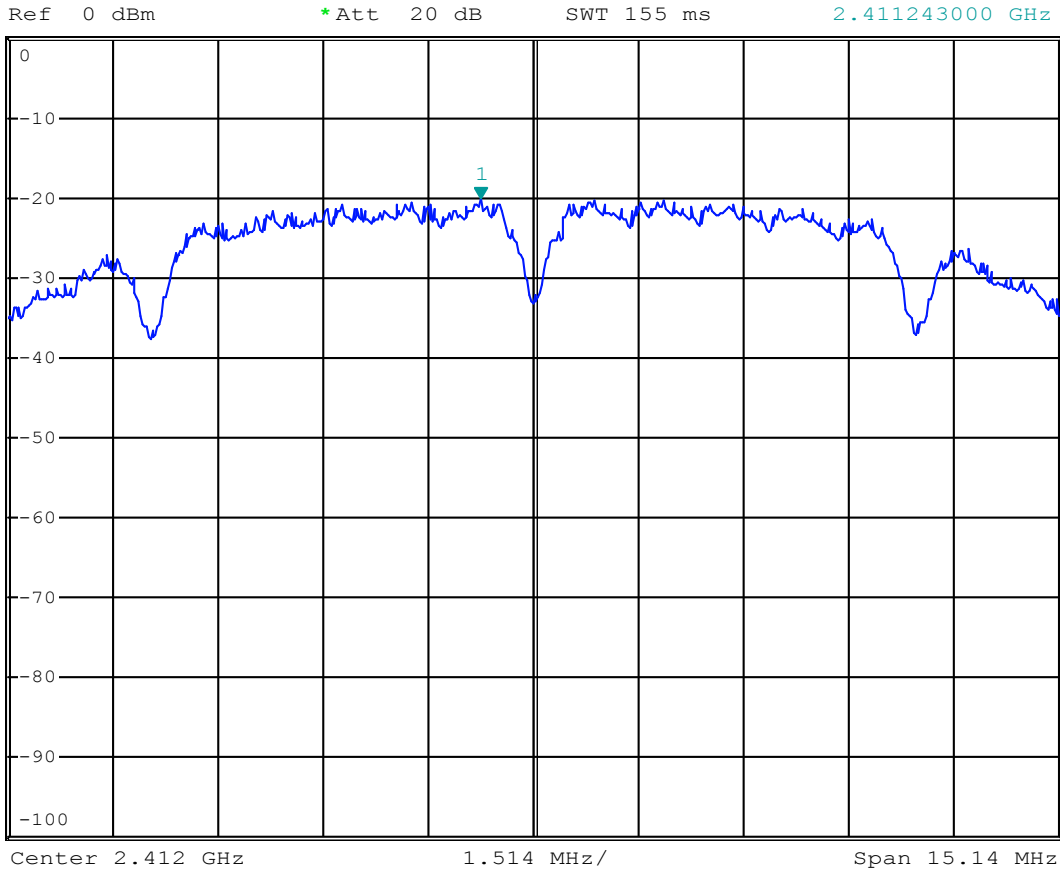
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4. 802.11b at 1Mbps of CH1



*RBW 10 kHz Marker 1 [T1]
 *VBW 30 kHz -20.19 dBm
 SWT 155 ms 2.411243000 GHz



Date: 08.JAN.2025 17:21:31

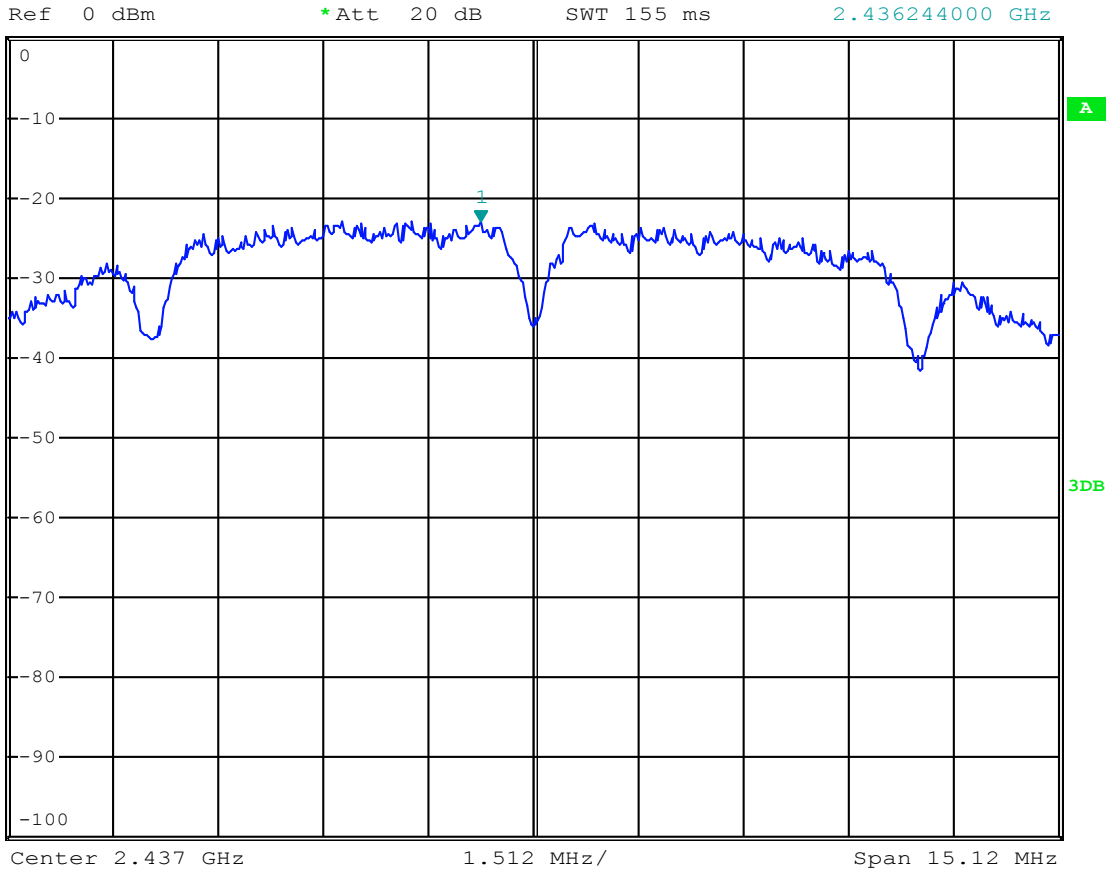
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5. 802.11b at 1Mbps of CH6



*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -22.88 dBm
SWT 155 ms 2.436244000 GHz



Date: 08.JAN.2025 17:18:19

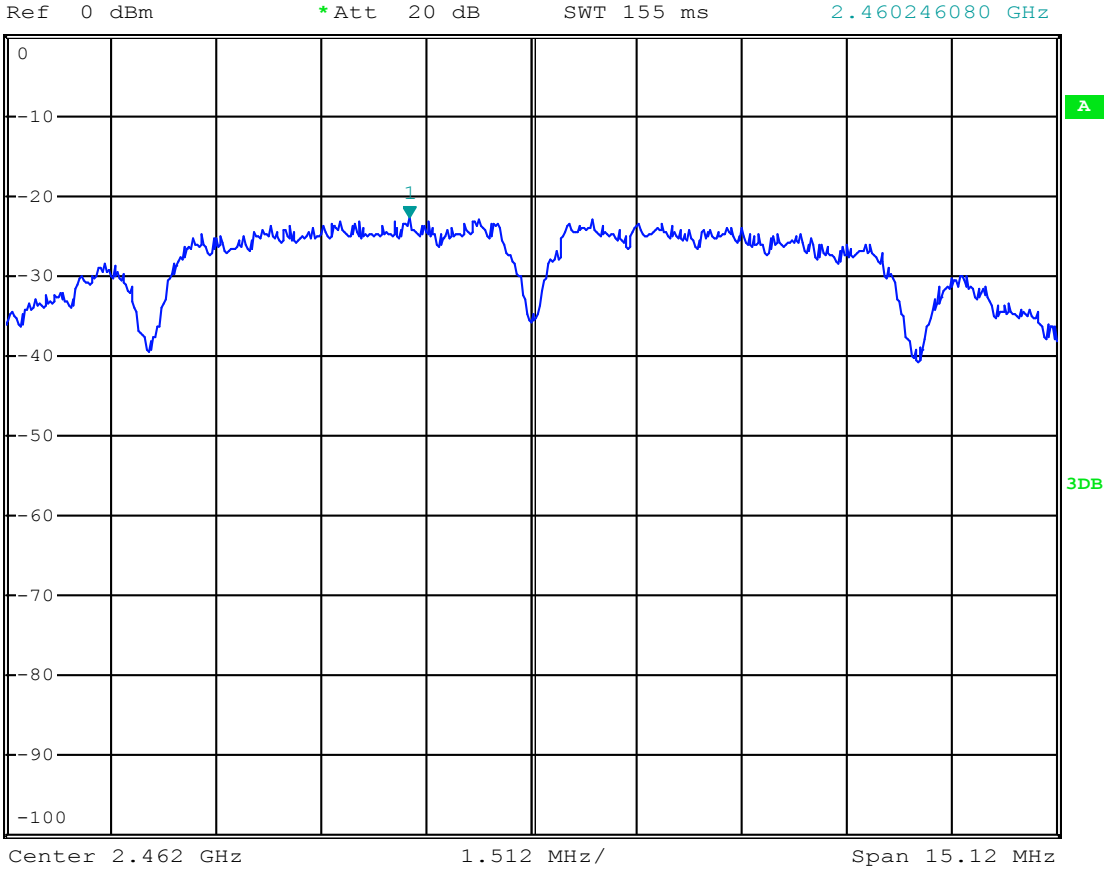
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6. 802.11b at 1Mbps of CH11



*RBW 10 kHz Marker 1 [T1]
 *VBW 30 kHz -22.83 dBm
 SWT 155 ms 2.460246080 GHz

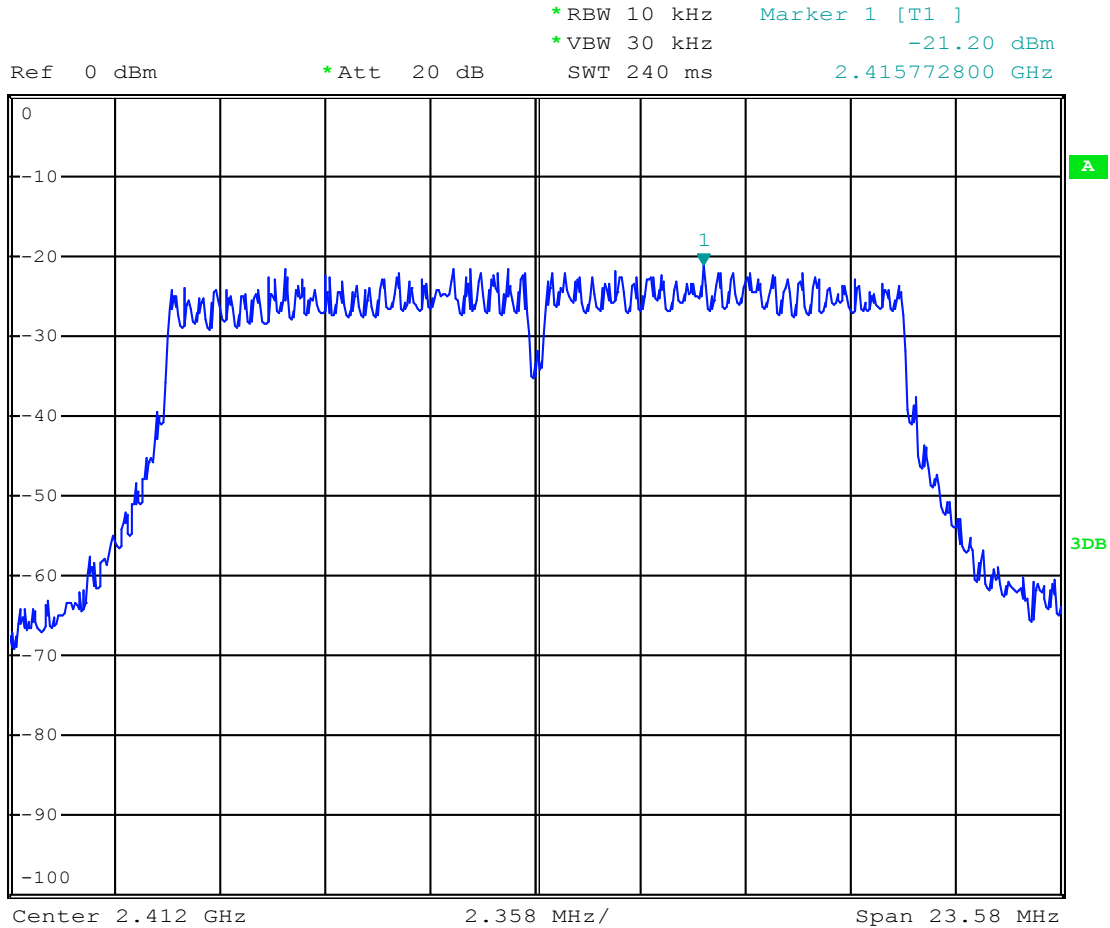


Date: 08.JAN.2025 17:11:53

The report refers only to the sample tested and does not apply to the bulk.
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7. 802.11g at 6Mbps of CH1

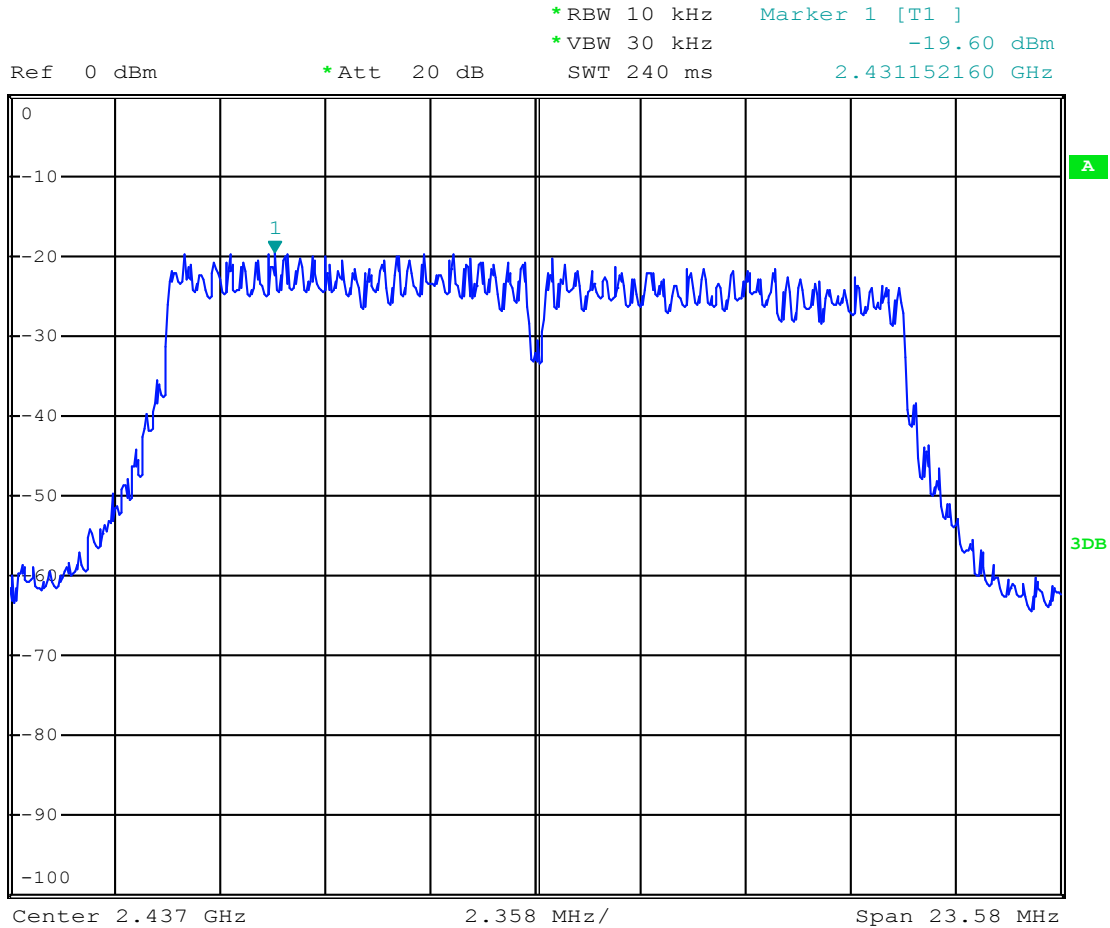


Date: 08.JAN.2025 17:34:44

The report refers only to the sample tested and does not apply to the bulk.
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8. 802.11g at 6Mbps of CH6



Date: 08.JAN.2025 17:33:50

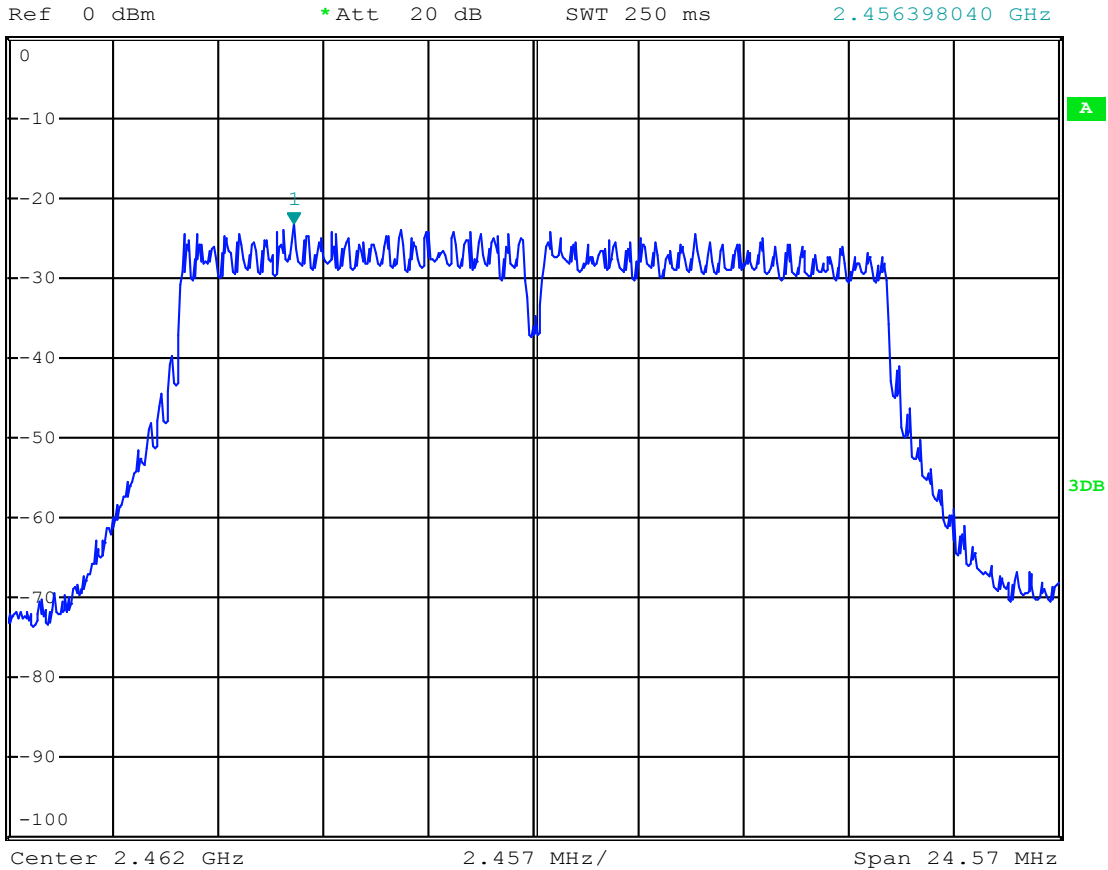
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9. 802.11g at 6Mbps of CH11



*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -23.26 dBm
SWT 250 ms 2.456398040 GHz



Date: 08.JAN.2025 17:31:58

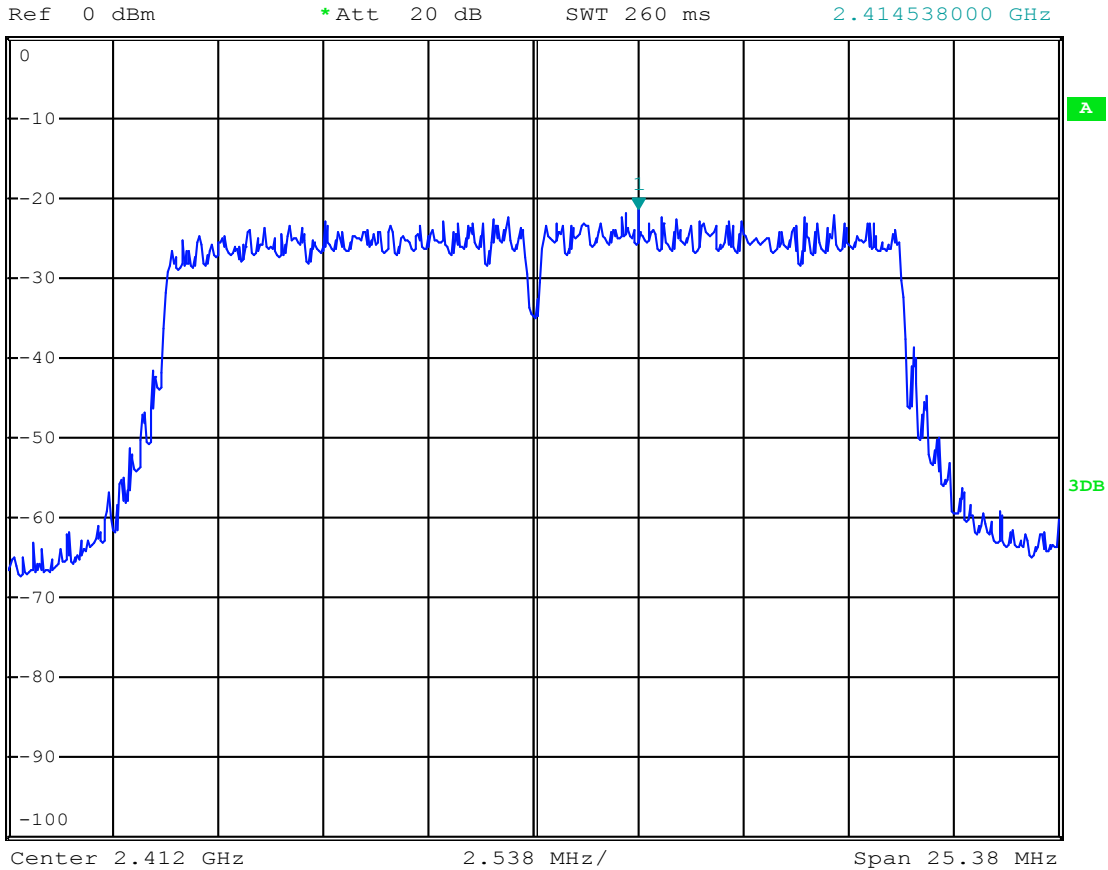
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10. 802.11n at HT20 of CH01



*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -21.50 dBm
SWT 260 ms 2.414538000 GHz



Date: 08.JAN.2025 17:35:48

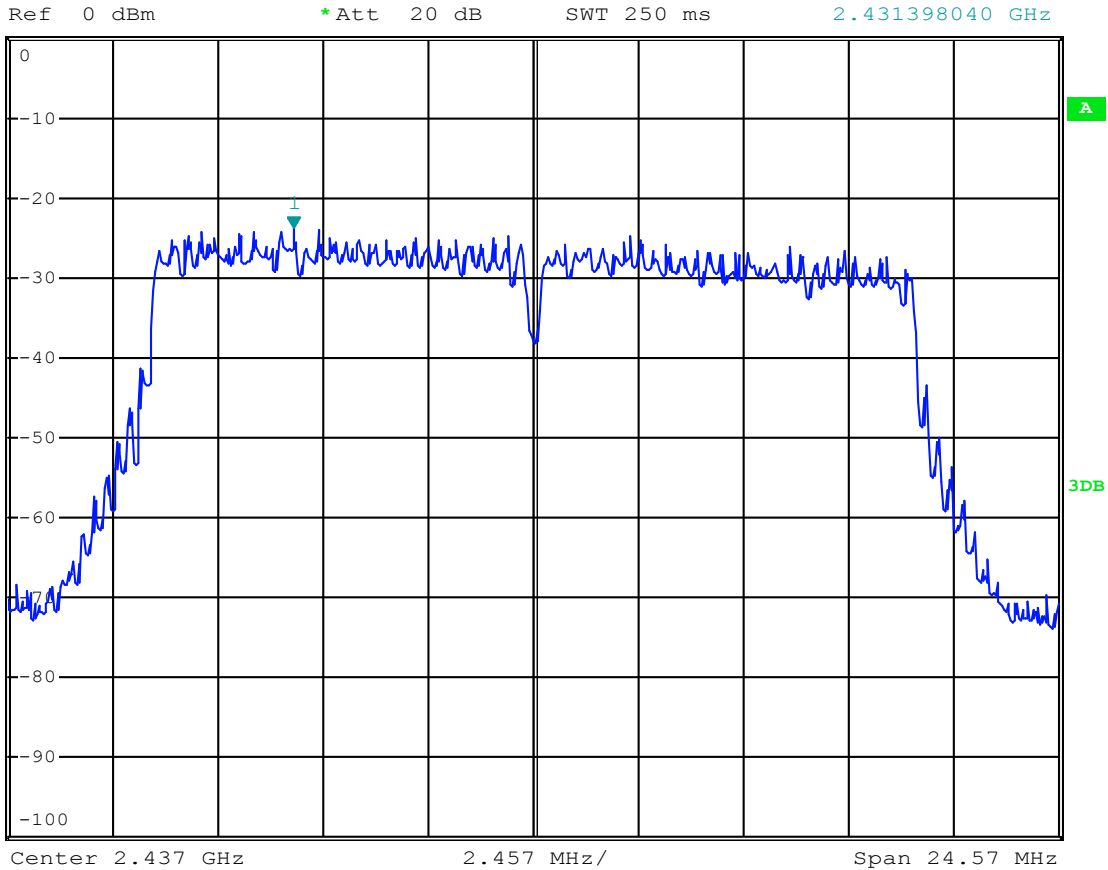
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11. 802.11n at HT20 of CH06



*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -23.88 dBm
SWT 250 ms 2.431398040 GHz



Date: 08.JAN.2025 17:37:02

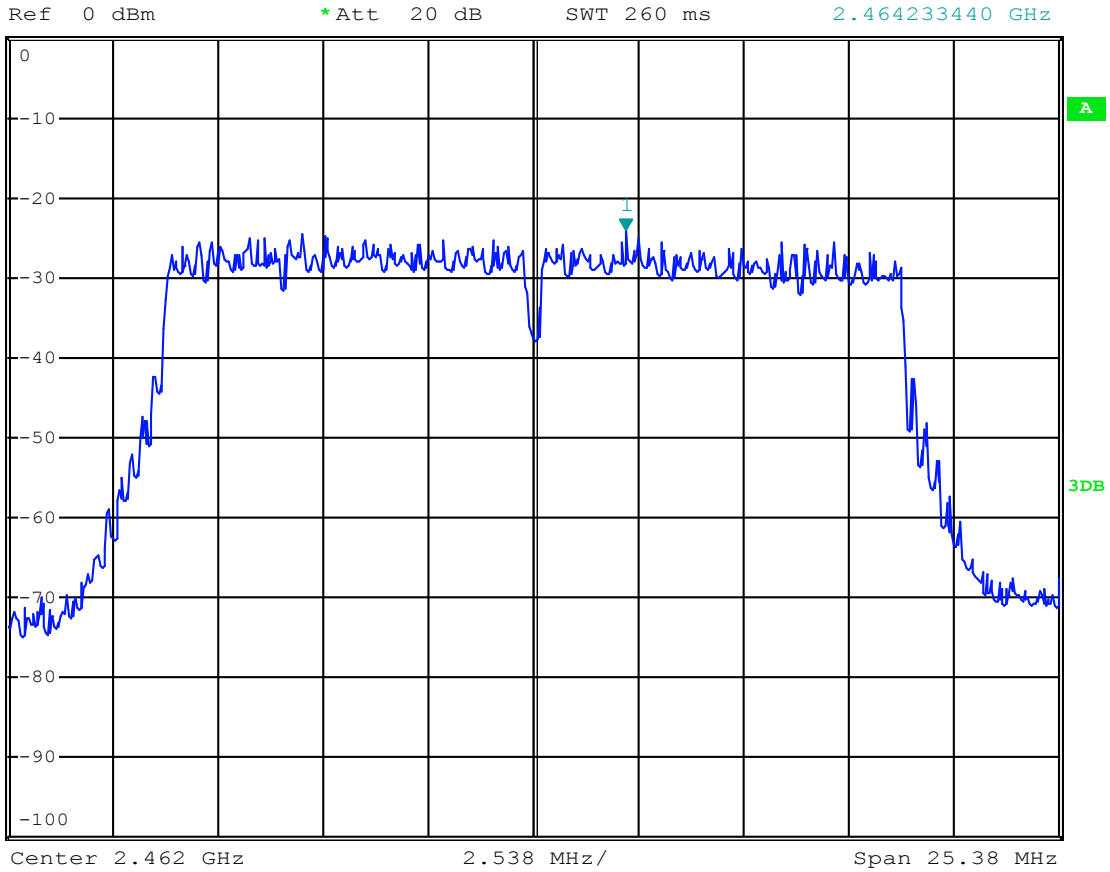
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12. 802.11n at HT20 of CH11



*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -24.07 dBm
SWT 260 ms 2.464233440 GHz

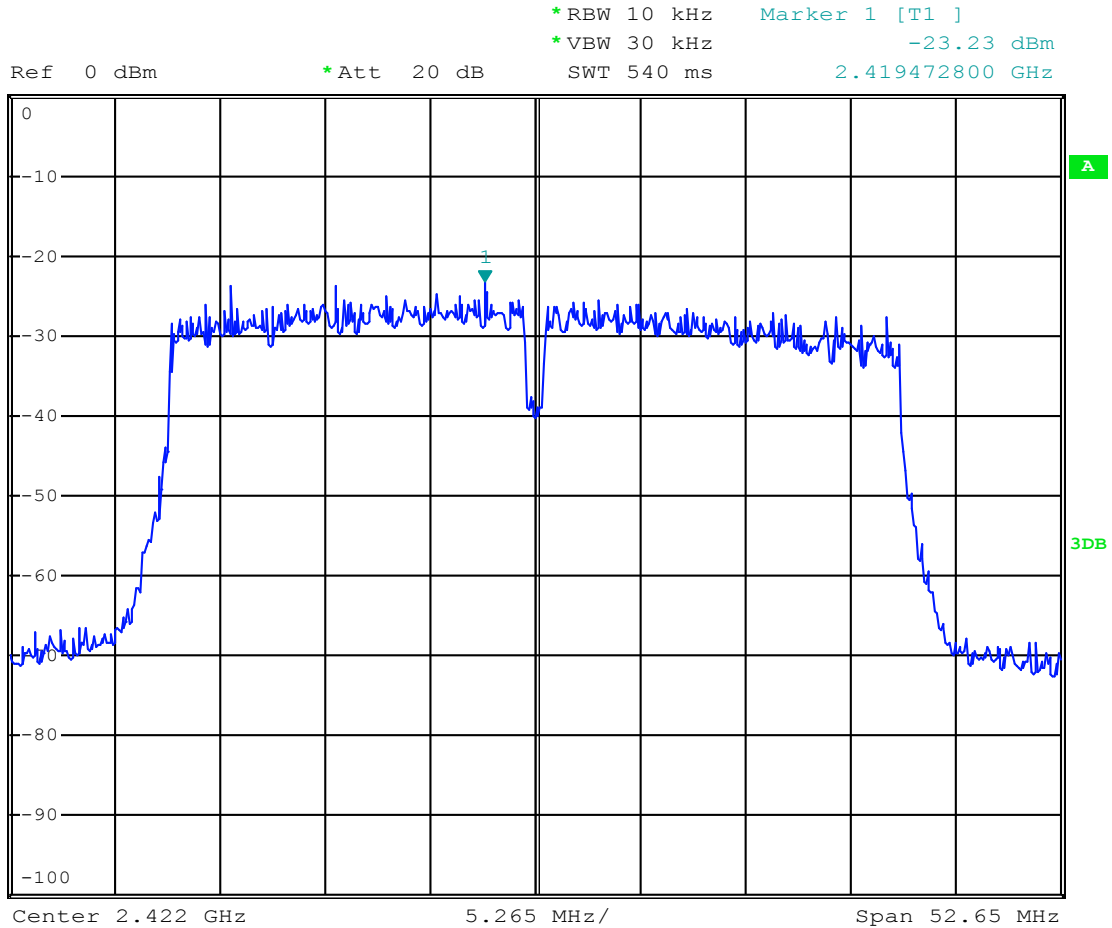


Date: 08.JAN.2025 17:38:30

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13. 802.11n at HT40 of CH03



Date: 08.JAN.2025 17:02:35

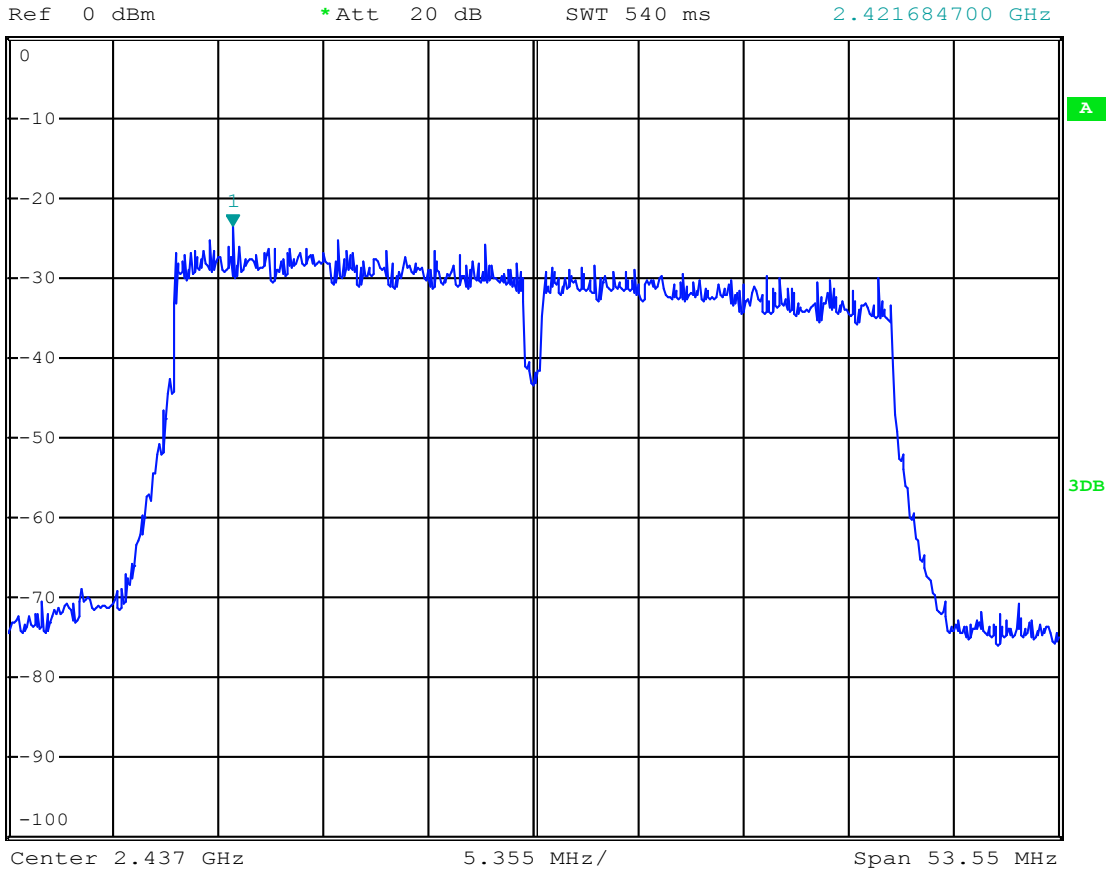
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14. 802.11n at HT40 of CH06



*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -23.39 dBm
SWT 540 ms 2.421684700 GHz



Date: 08.JAN.2025 17:04:13

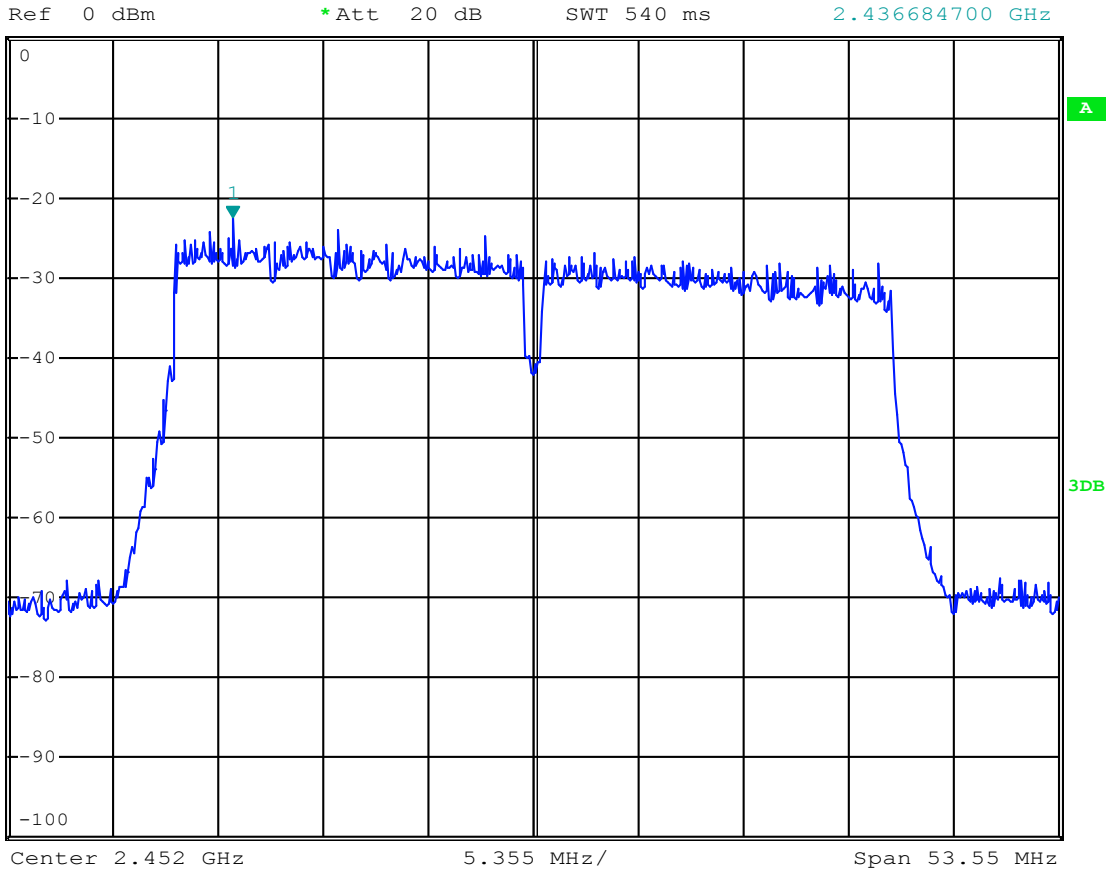
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15. 802.11n at HT40 of CH09



*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -22.57 dBm
SWT 540 ms 2.436684700 GHz



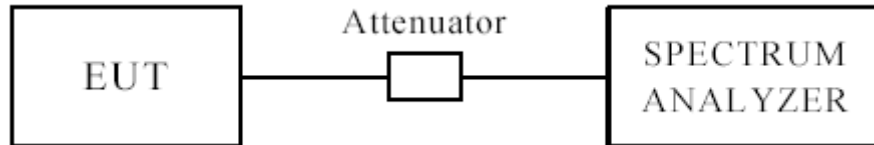
Date: 08.JAN.2025 17:08:30

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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -30dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=100, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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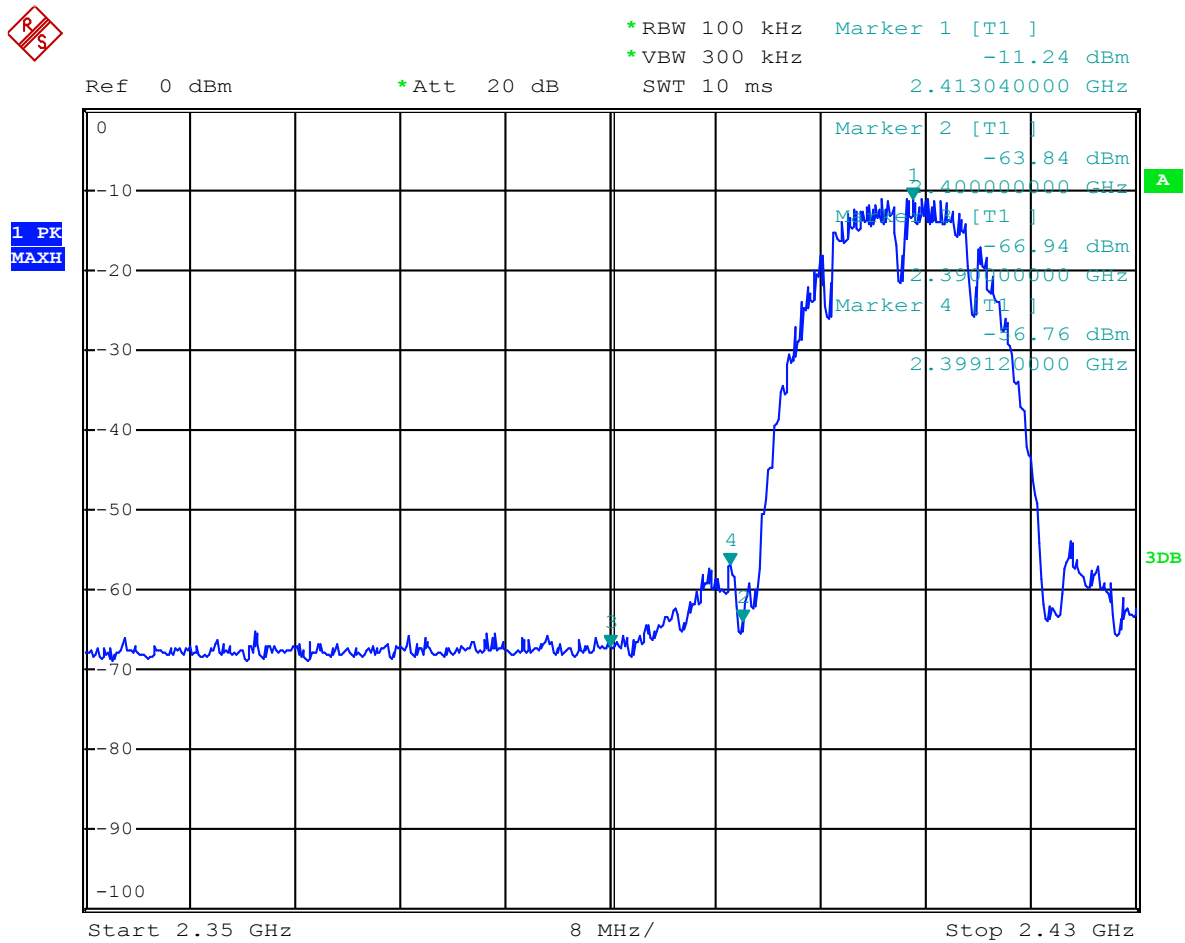
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge Measurement

| | | | |
|--------------|----------------------|--------------|-------------------|
| EUT | ATN X-Sight 5 | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 08.JAN.2025 17:43:20

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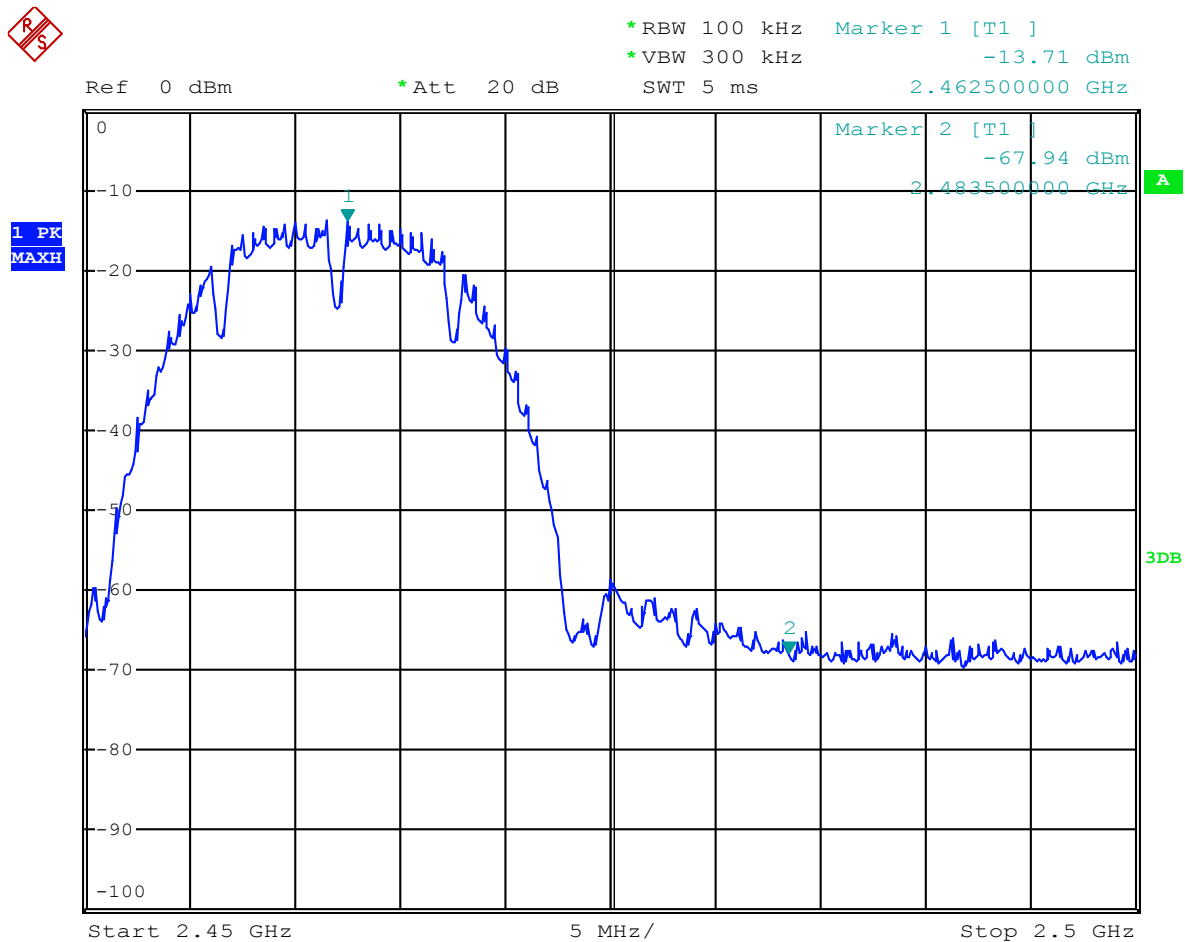


CH11 at 1Mbps

10.4 Band-edge Measurement

| | | | |
|--------------|----------------------|--------------|-------------------|
| EUT | ATN X-Sight 5 | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 08.JAN.2025 17:40:28

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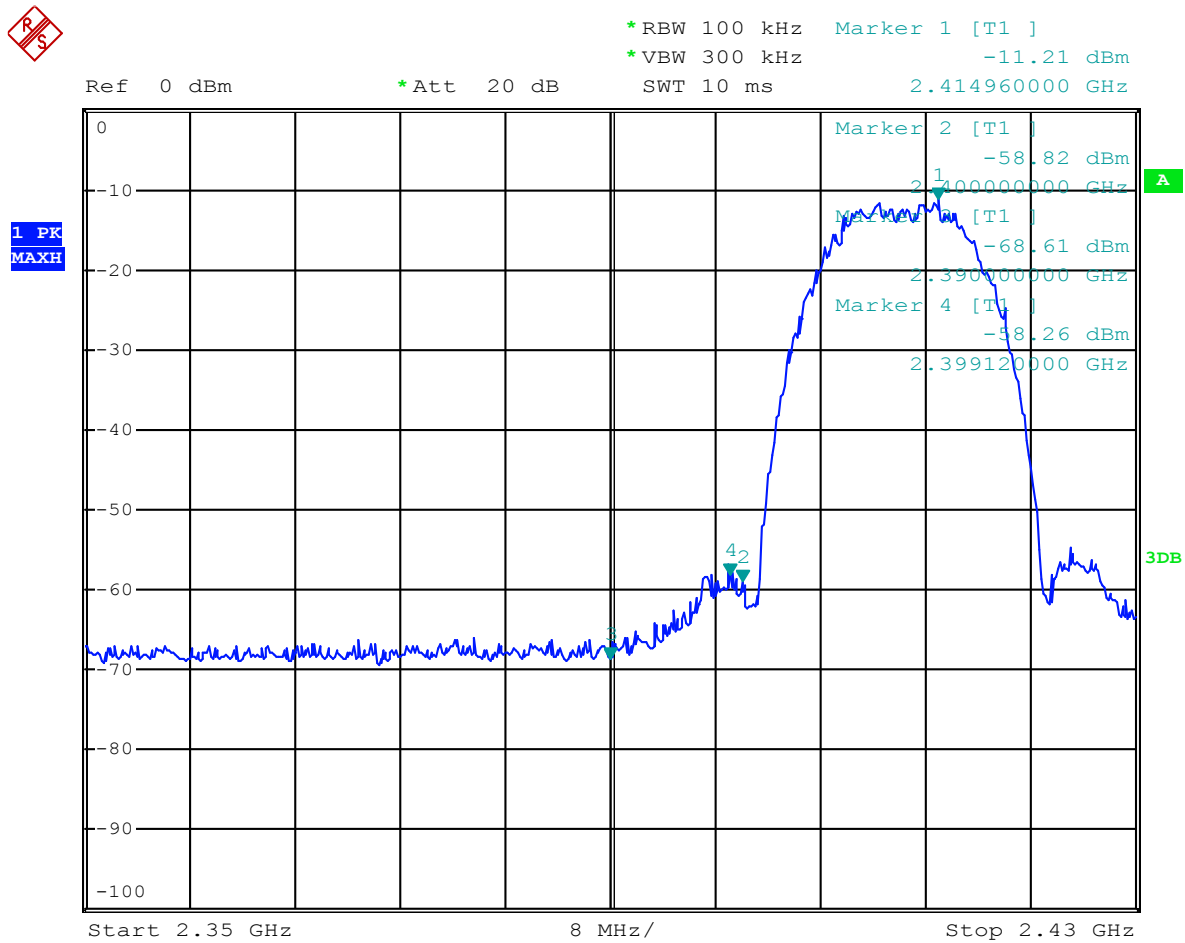
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge Measurement

| | | | |
|--------------|----------------------|--------------|-------------------|
| EUT | ATN X-Sight 5 | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 08.JAN.2025 17:43:56

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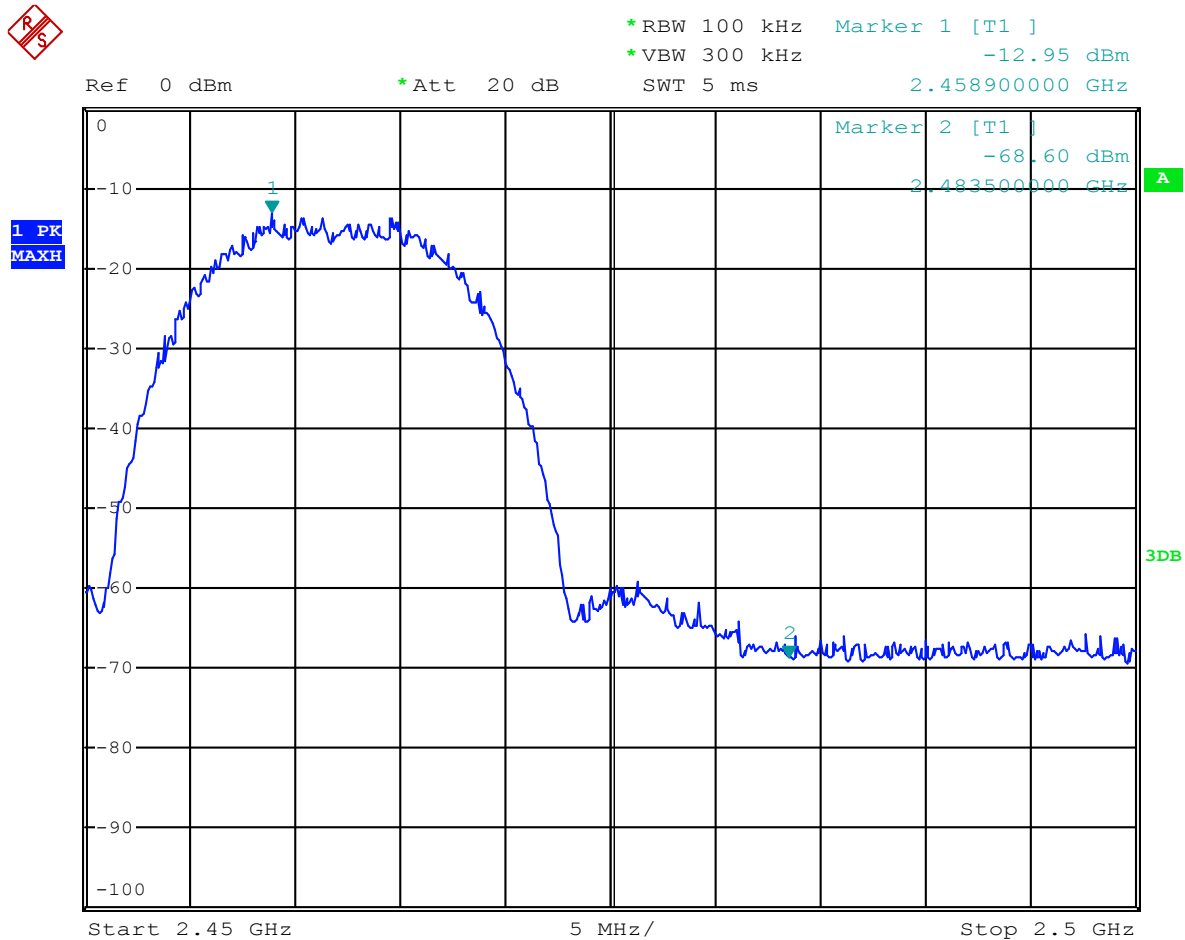


CH11 at 11Mbps

10.4 Band-edge Measurement

| | | | |
|--------------|----------------------|--------------|-------------------|
| EUT | ATN X-Sight 5 | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 08.JAN.2025 17:40:58

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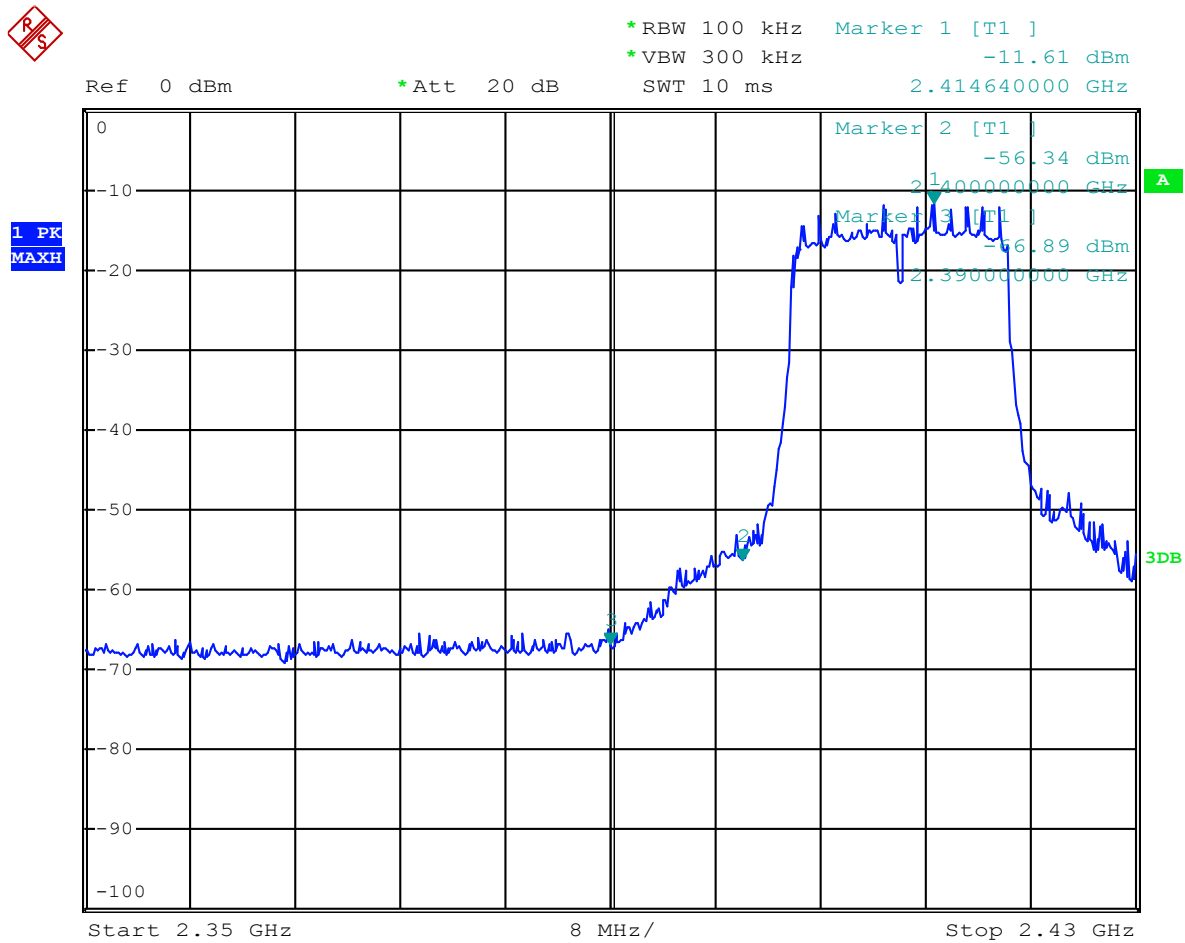
For 802.11g mode

CH01 at 6Mbps

10.4 Band-edge Measurement

| | | | |
|--------------|----------------------|--------------|-------------------|
| EUT | ATN X-Sight 5 | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 08.JAN.2025 17:44:41

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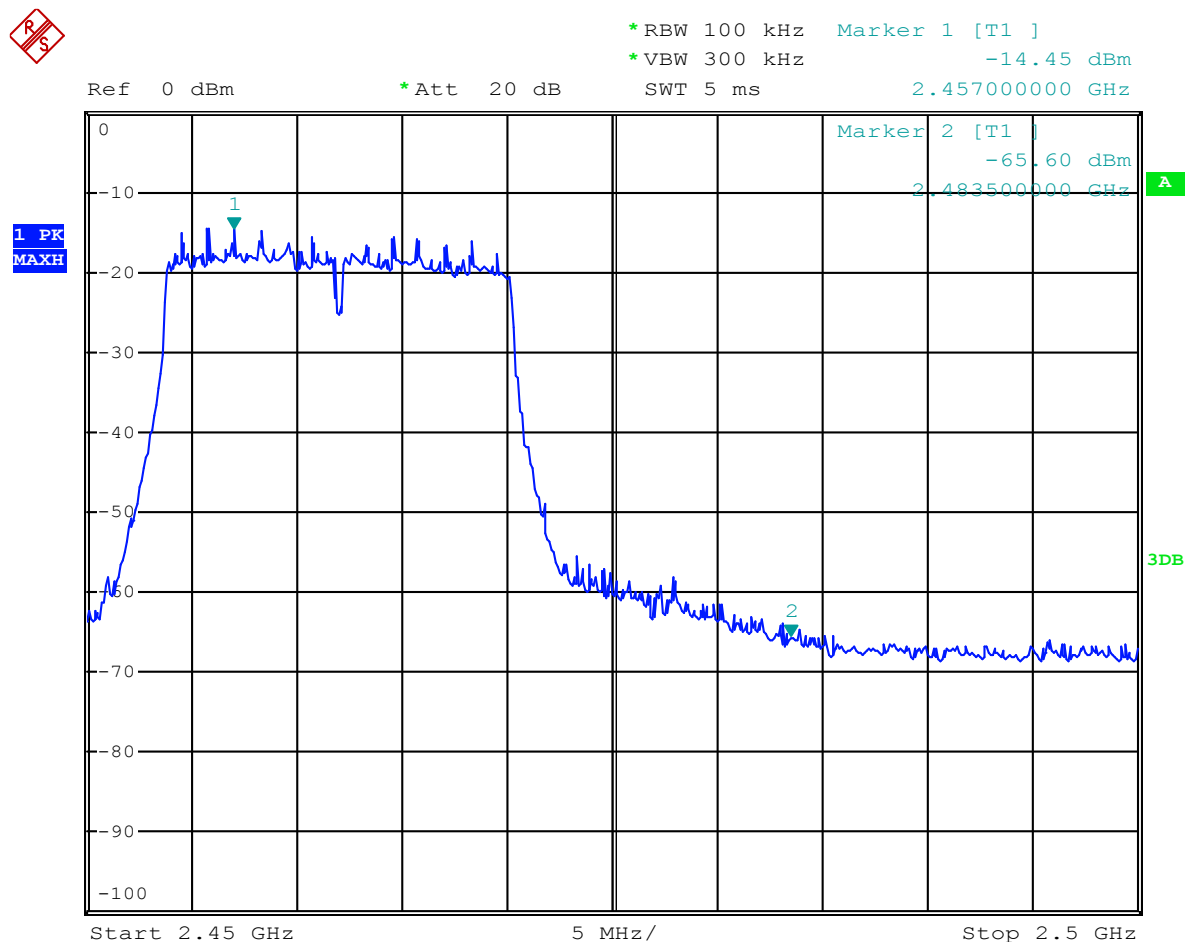


CH11 at 6Mbps

10.4 Band-edge Measurement

| | | | |
|--------------|----------------------|--------------|-------------------|
| EUT | ATN X-Sight 5 | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 08.JAN.2025 17:40:00

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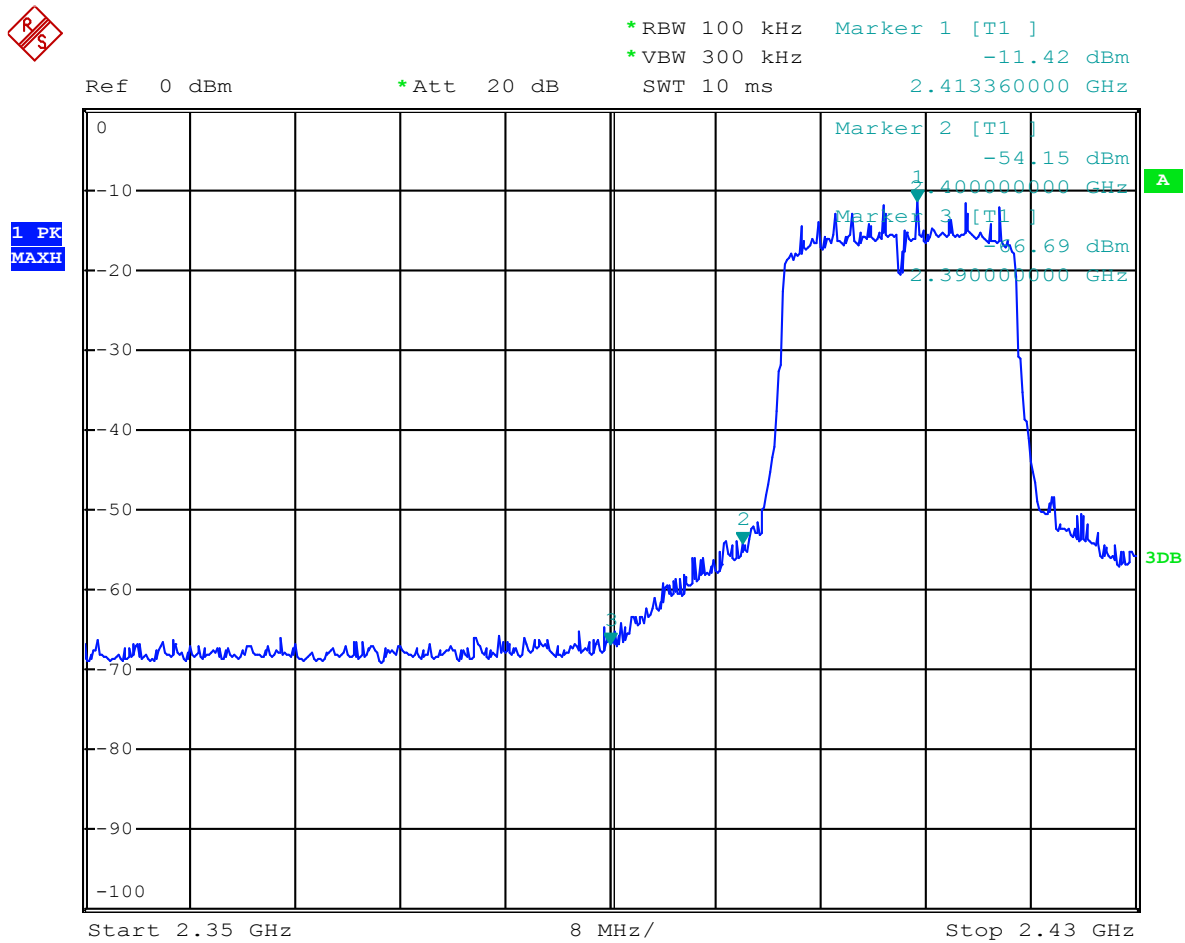
For 802.11n (HT20) mode

CH01 at 6.5Mbps

10.4 Band-edge Measurement

| | | | |
|--------------|----------------------|--------------|-------------------|
| EUT | ATN X-Sight 5 | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 08.JAN.2025 17:45:17

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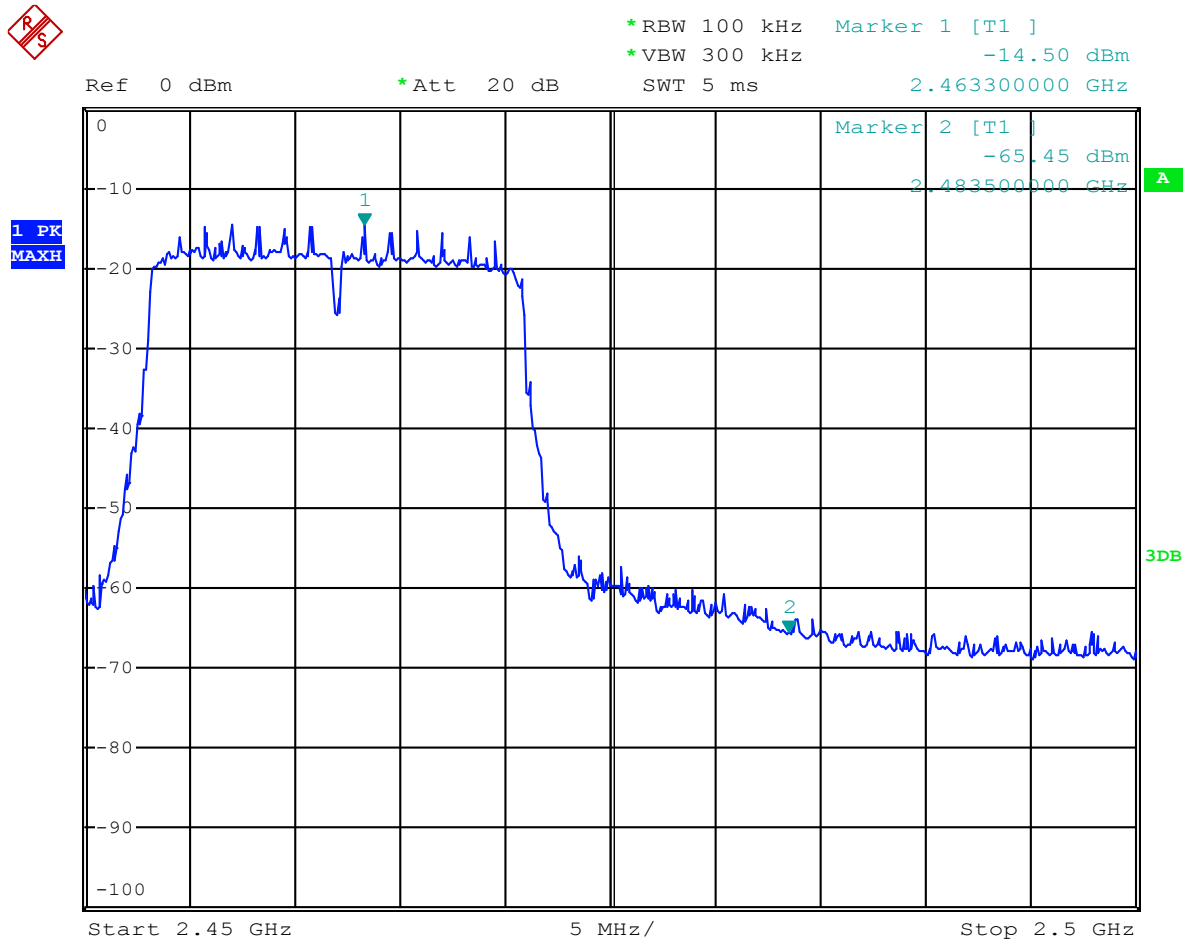


CH11 at 6.5Mbps

10.4 Band-edge Measurement

| | | | |
|--------------|----------------------|--------------|-------------------|
| EUT | ATN X-Sight 5 | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 08.JAN.2025 17:39:13

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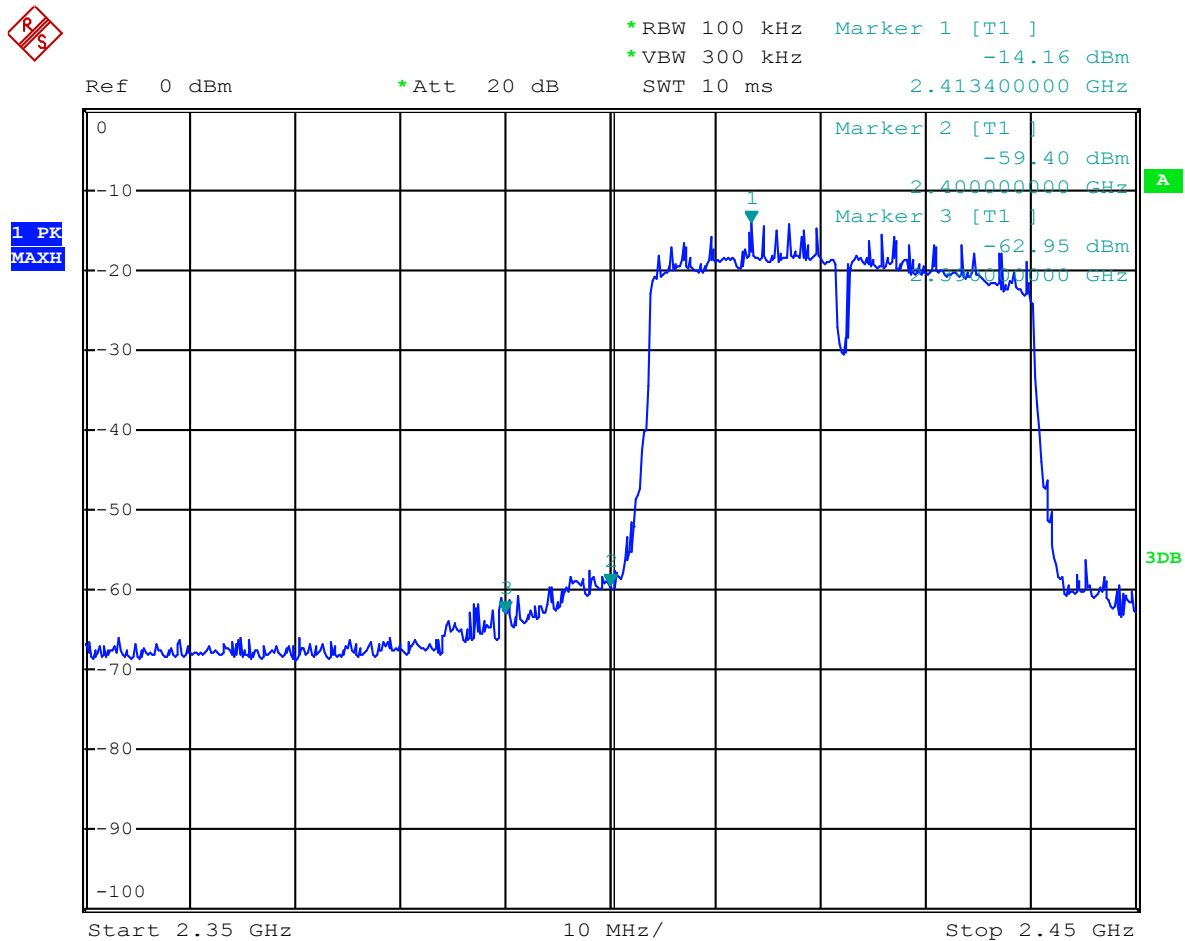
For 802.11n (HT40) mode

CH03 at 6.5Mbps

10.4 Band-edge Measurement

| | | | |
|--------------|----------------------|--------------|-------------------|
| EUT | ATN X-Sight 5 | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 08.JAN.2025 17:42:39

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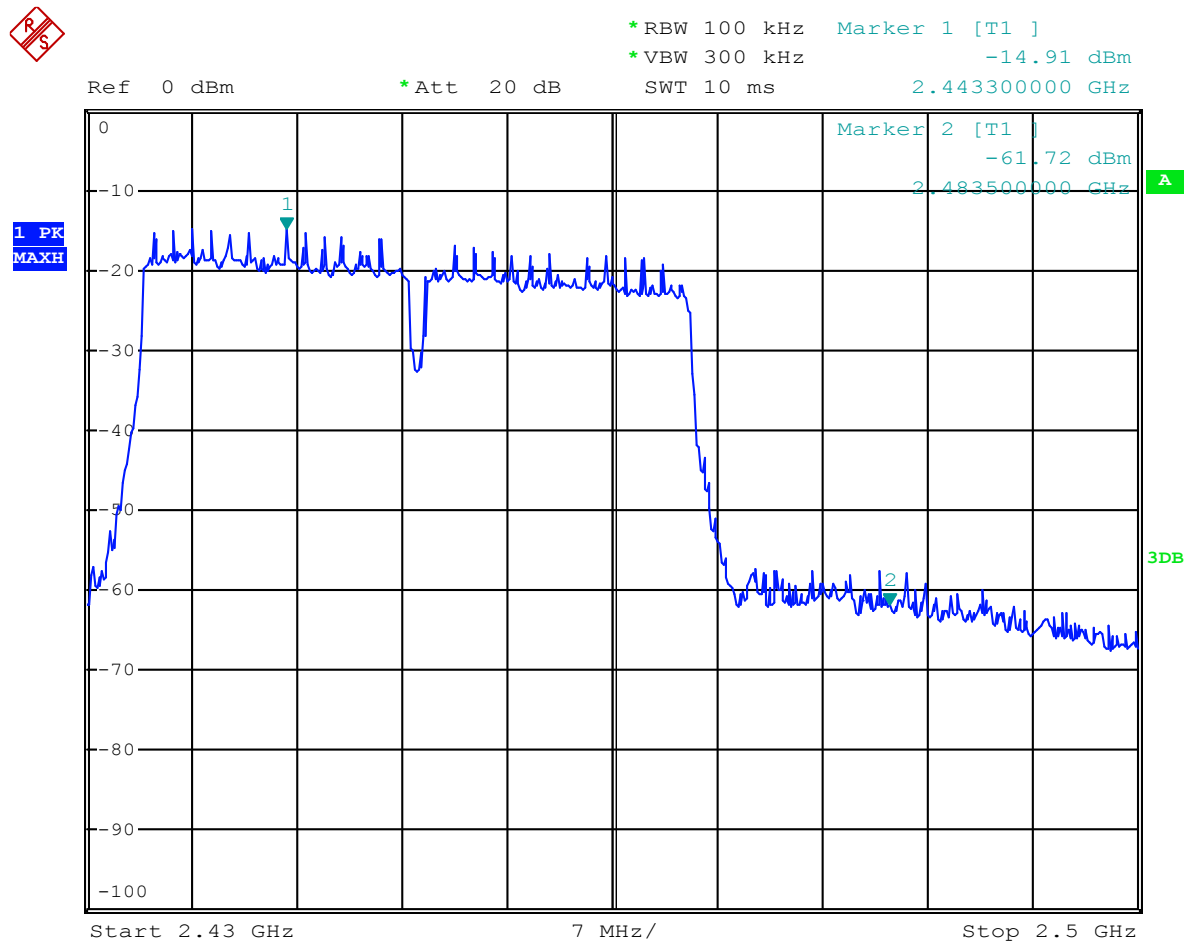


CH03 at 6.5Mbps

10.4 Band-edge Measurement

| | | | |
|--------------|----------------------|--------------|-------------------|
| EUT | ATN X-Sight 5 | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |

Test Figure:



Date: 08.JAN.2025 17:41:42

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10.5 Restricted band Measurement

| | | | | |
|---------------------------------------|----------------------|-------|--------------|-------------------|
| EUT | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11b mode, Low Channel, Horizontal | | | | |
| 2390 MHz | PK (dB μ V/m) | 38.18 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |
| 802.11b mode, Low Channel, Vertical | | | | |
| 2390 MHz | PK (dB μ V/m) | 39.52 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |

10.5 Restricted band Measurement

| | | | | |
|--|----------------------|-------|--------------|-------------------|
| EUT | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11b mode, High Channel, Horizontal | | | | |
| 2483.5 MHz | PK (dB μ V/m) | 39.12 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |
| 802.11b mode, High Channel, Vertical | | | | |
| 2483.5 MHz | PK (dB μ V/m) | 38.07 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |

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10.5 Restricted band Measurement

| | | | | |
|---------------------------------------|----------------------|-------|--------------|-------------------|
| EUT | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11g mode, Low Channel, Horizontal | | | | |
| 2390 MHz | PK (dB μ V/m) | 37.68 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |
| 802.11g mode, Low Channel, Vertical | | | | |
| 2390 MHz | PK (dB μ V/m) | 39.01 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |

10.5 Restricted band Measurement

| | | | | |
|--|----------------------|-------|--------------|-------------------|
| EUT | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11g mode, High Channel, Horizontal | | | | |
| 2483.5 MHz | PK (dB μ V/m) | 39.51 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |
| 802.11g mode, High Channel, Vertical | | | | |
| 2483.5 MHz | PK (dB μ V/m) | 37.51 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |

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10.5 Restricted band Measurement

| | | | | |
|--|----------------------|-------|--------------|-------------------|
| EUT | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11n HT20 mode, Low Channel, Horizontal | | | | |
| 2390 MHz | PK (dB μ V/m) | 38.52 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |
| 802.11n HT20 mode, Low Channel, Vertical | | | | |
| 2390 MHz | PK (dB μ V/m) | 40.46 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |

10.5 Restricted band Measurement

| | | | | |
|---|----------------------|-------|--------------|-------------------|
| EUT | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11n HT20 mode, High Channel, Horizontal | | | | |
| 2483.5 MHz | PK (dB μ V/m) | 39.23 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |
| 802.11n HT20 mode, High Channel, Vertical | | | | |
| 2483.5 MHz | PK (dB μ V/m) | 38.07 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |

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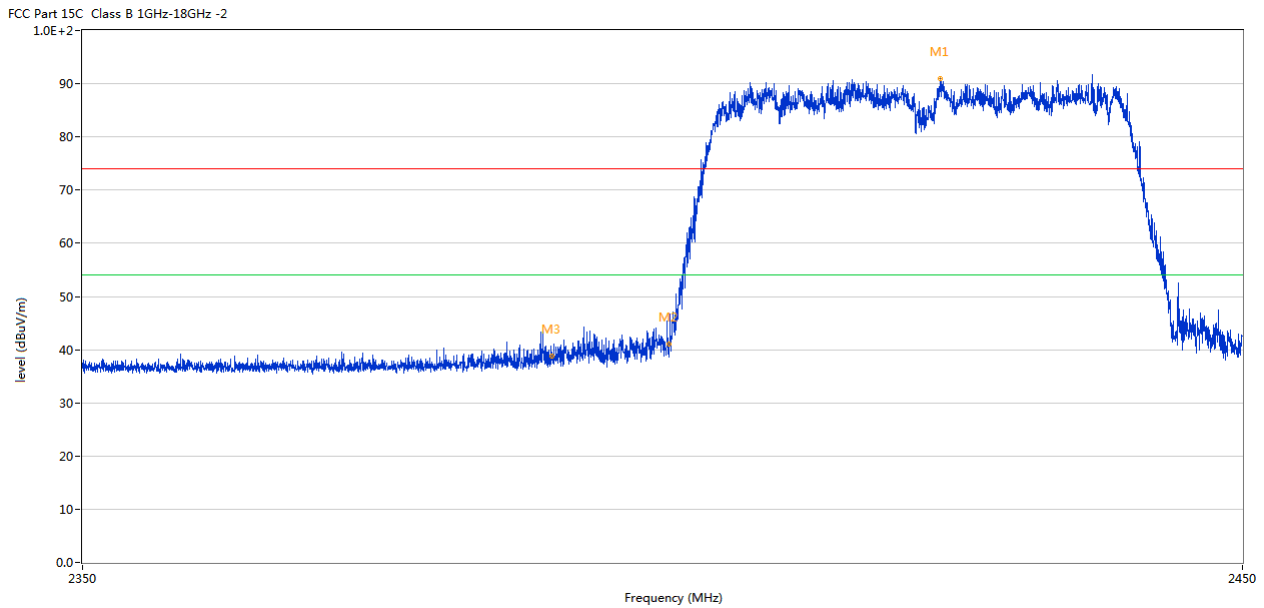
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10.5 Restricted band Measurement

| | | | | |
|--|----------------------|-------|--------------|-------------------|
| EUT | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11n HT40 mode, Low Channel, Horizontal | | | | |
| 2390 MHz | PK (dBμV/m) | 38.84 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |
| 802.11n HT40 mode, Low Channel Vertical | | | | |
| 2390 MHz | PK (dBμV/m) | 40.81 | Limit | 74(dBμV/m) |
| | AV (dBμV/m) | -- | | 54(dBμV/m) |

Test Plots

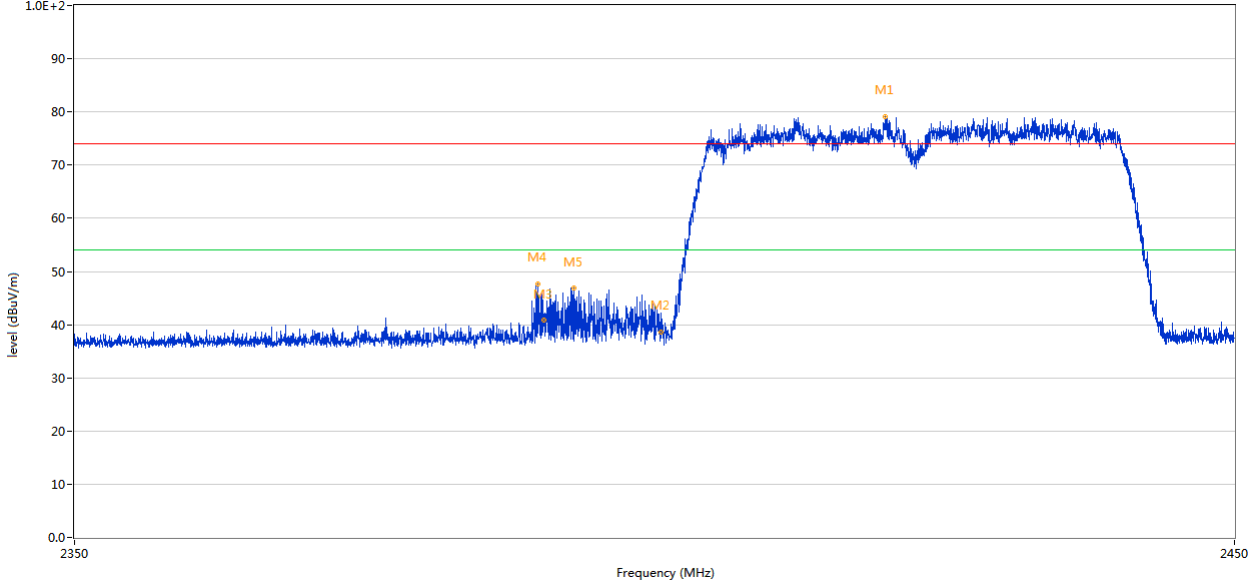


| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 1 | 2423.557 | 91.01 | -3.57 | 74.0 | 17.01 | Peak | 283.00 | 100 | Horizontal | N/A |
| 2 | 2400.000 | 41.13 | -3.57 | 74.0 | -32.87 | Peak | 283.00 | 100 | Horizontal | Pass |
| 3 | 2390.000 | 38.84 | -3.53 | 74.0 | -35.16 | Peak | 118.20 | 100 | Horizontal | Pass |

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FCC Part 15C Class B 1GHz-18GHz -2
 1.0E+2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 1 | 2419.408 | 79.04 | -3.57 | 74.0 | 5.04 | Peak | 16.00 | 100 | Vertical | N/A |
| 2 | 2400.000 | 38.67 | -3.57 | 74.0 | -35.33 | Peak | 213.50 | 100 | Vertical | Pass |
| 3 | 2390.000 | 40.81 | -3.53 | 74.0 | -33.19 | Peak | 115.00 | 100 | Vertical | Pass |
| 4 | 2389.465 | 47.68 | -3.53 | 74.0 | -26.32 | Peak | 99.00 | 100 | Vertical | Pass |
| 5 | 2392.564 | 46.88 | -3.54 | 74.0 | -27.12 | Peak | 109.00 | 100 | Vertical | Pass |

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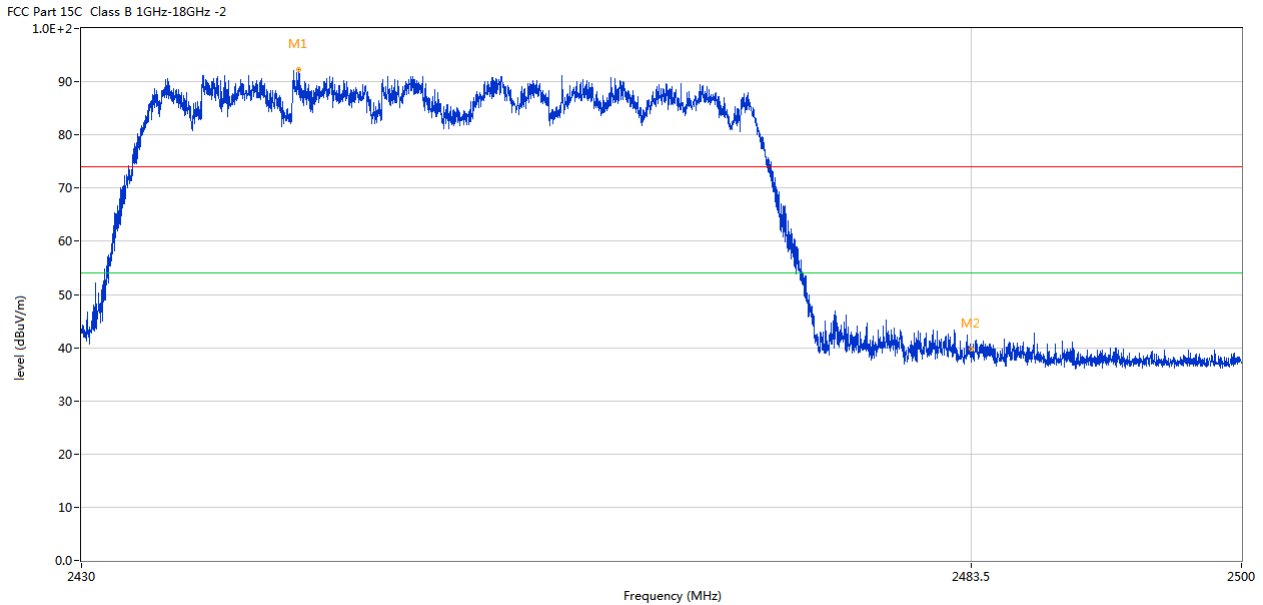
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10.5 Restricted band Measurement

| | | | | |
|---|----------------------|-------|--------------|-------------------|
| EUT | ATN X-Sight 5 | | Model | X-Sight 3-15x LRF |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| 802.11n HT40 mode, High Channel, Horizontal | | | | |
| 2483.5 MHz | PK (dB μ V/m) | 39.66 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |
| 802.11n HT40 mode, High Channel, Vertical | | | | |
| 2483.5 MHz | PK (dB μ V/m) | 38.82 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |

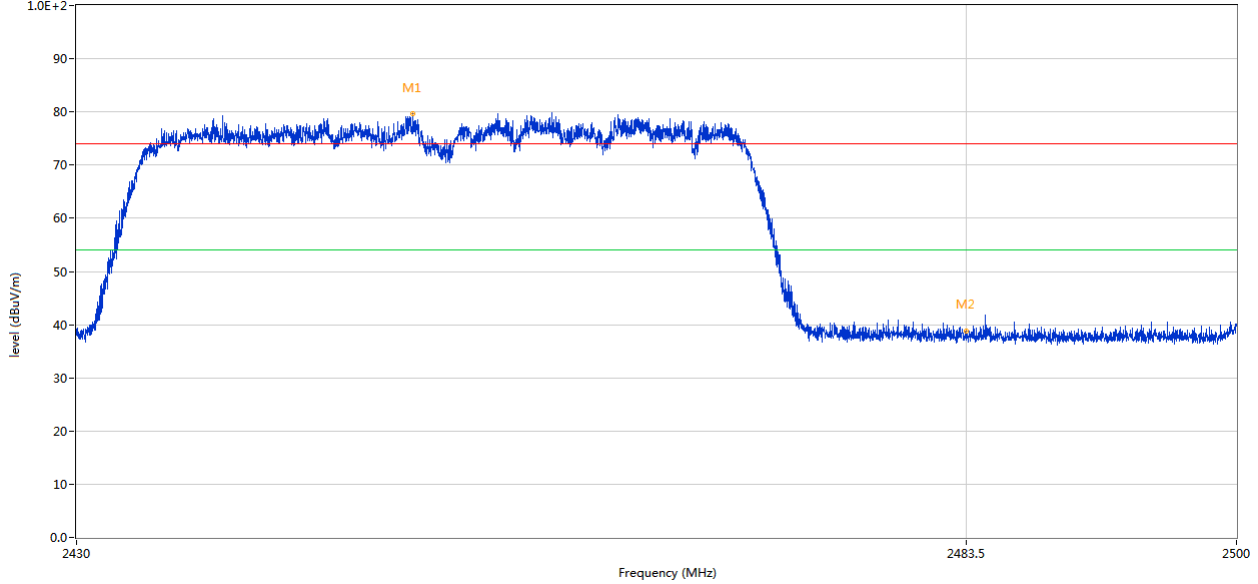


| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 1 | 2442.947 | 92.25 | -3.57 | 74.0 | 18.25 | Peak | 287.00 | 100 | Horizontal | N/A |
| 2 | 2483.500 | 39.66 | -3.57 | 74.0 | -34.34 | Peak | 287.00 | 100 | Horizontal | Pass |

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FCC Part 15C Class B 1GHz-18GHz -2
 1.0E+2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 1 | 2450.085 | 79.71 | -3.57 | 74.0 | 5.71 | Peak | 17.00 | 100 | Vertical | N/A |
| 2 | 2483.500 | 38.82 | -3.57 | 74.0 | -35.18 | Peak | 118.11 | 100 | Vertical | Pass |

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Chip antenna with gain 2.1dBi Max (Get from the antenna specification)

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12.0 FCC ID Label

FCC ID: 2BKIH-XS5

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



Label Location

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13.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup:



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Outside View



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Outside View



Outside View

The report refers only to the sample tested and does not apply to the bulk.

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Outside View

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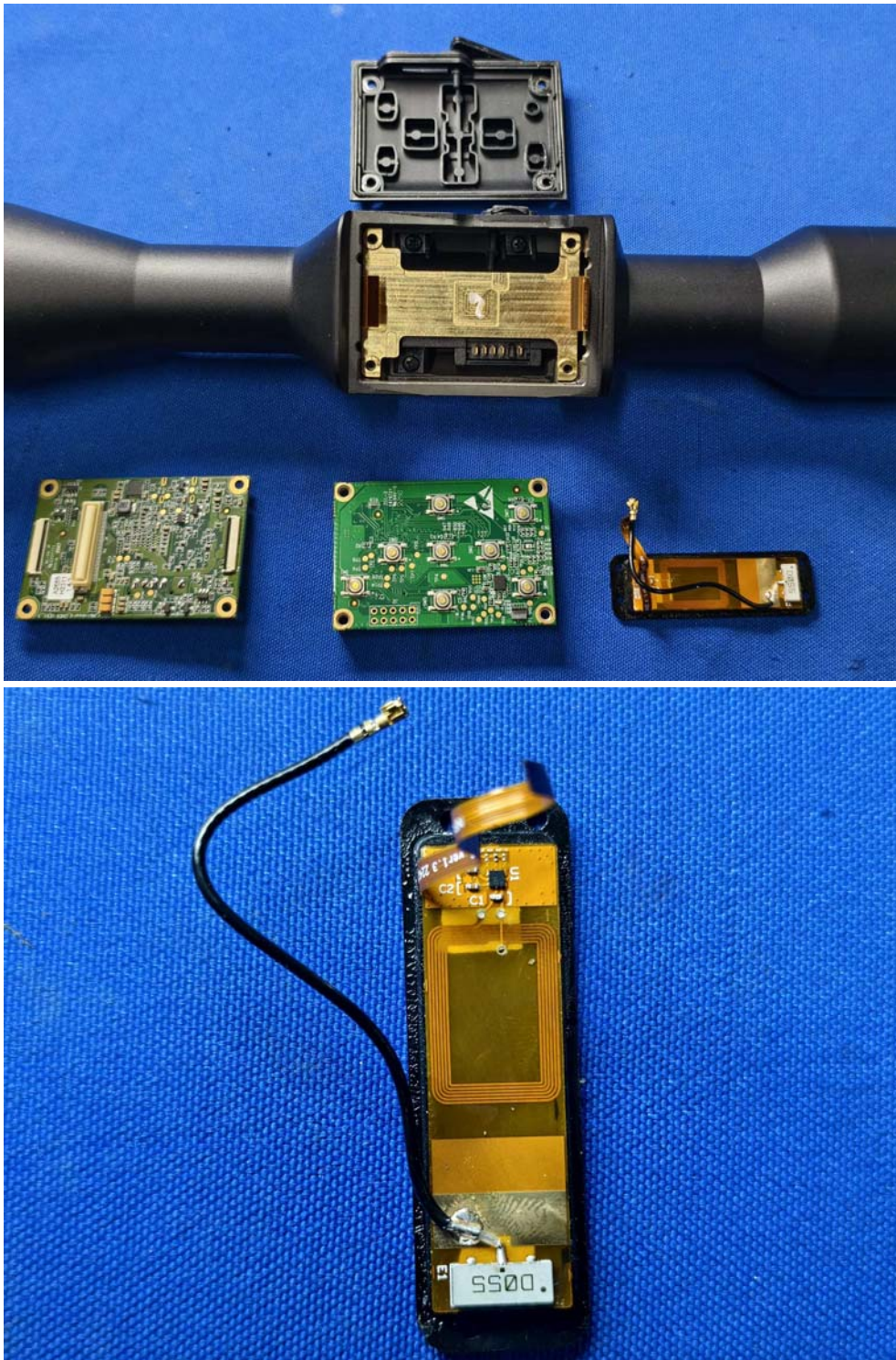
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Inside View

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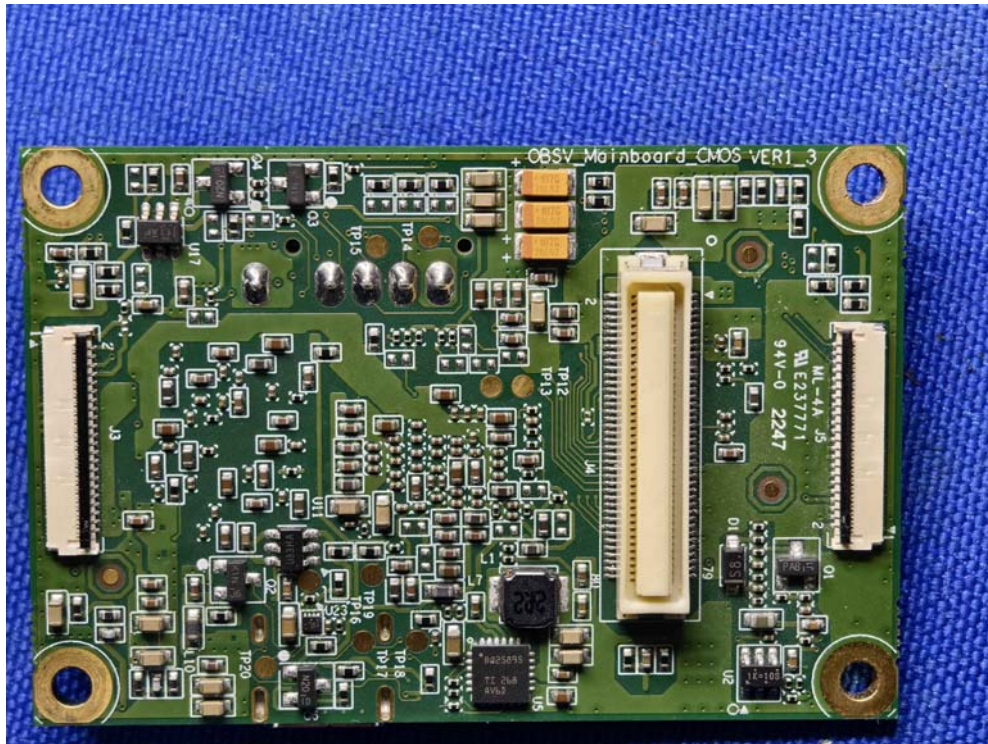
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Inside View

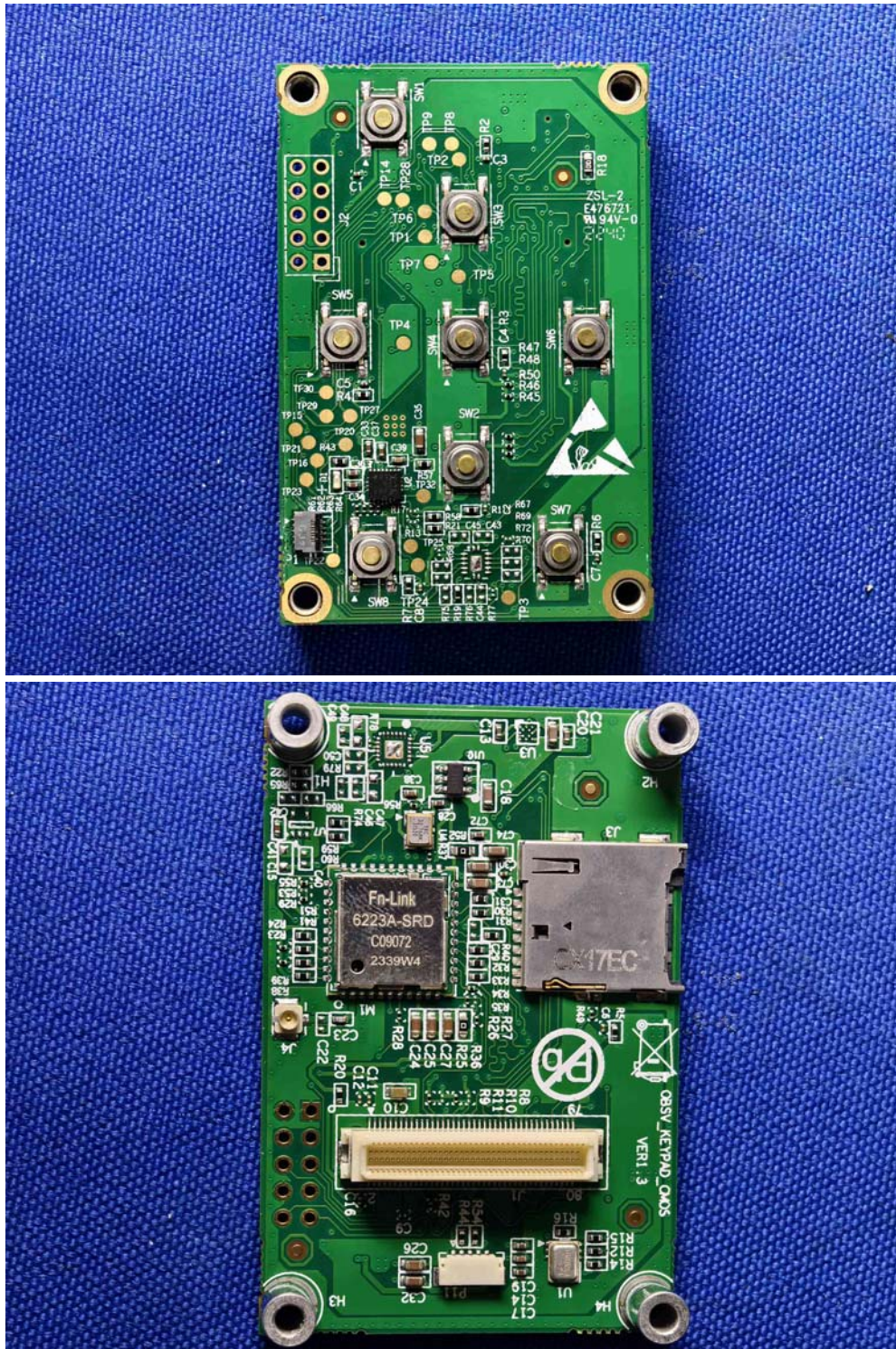
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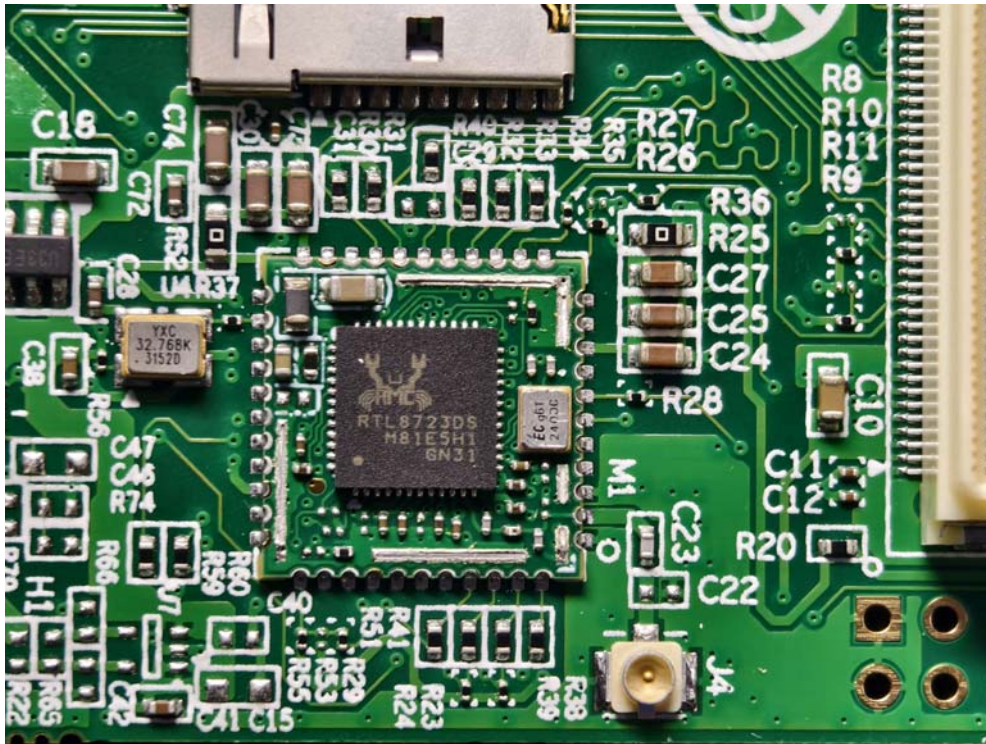
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-End of the report-

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